

# Test reports for Chute Mag, Eddy+, Eddy+Kids, and Podium (PCNA)



The undersigned, representing the following supplier

## CamelBak Products, LLC

2000 South McDowell Blvd, Suite 200  
Petaluma, CA 94954, USA

Declare, under our sole responsibility, that the following US/Canada compliance testing requirements

<i>Regulation ID</i>	<i>Description</i>
US FDA 21 CFR Part 177	Food contact materials and articles (indirect additives)
Canadian Regulation SOR 2018/83	Canadian consumer products containing lead
Canadian Regulation SOR 2016/193	Canadian lead in surface coating materials

for the following products:

### CamelBak® Chute Mag (Tritan Renew) Bottle™ (product of China) in the following configurations:

- Leeds ID# 1627-30CA, CB SKU# 2647001175, Chute Mag 25oz, Charcoal Leeds SMU
- Leeds ID# 1627-30CL, CB SKU# 2647101175, Chute Mag 25oz, Clear Leeds SMU
- Leeds ID# 1627-30CRDL, CB SKU# 2647603175, Chute Mag 25oz, Cardinal Leeds SMU
- Leeds ID# 1627-30LA, CB SKU# 2647604175, Chute Mag 25oz, Lava Leeds SMU
- Leeds ID# 1627-30LU, CB SKU# 2647502175, Chute Mag 25oz, Lupine Leeds SMU
- Leeds ID# 1627-30OXFD, CB SKU# 2647401175, Chute Mag 25oz, Oxford Leeds SMU
- Leeds ID# 1627-30TUBL, CB SKU# 2647402175, Chute Mag 25oz, True Blue Leeds SMU
- Leeds ID# 1627-31CA, CB SKU# 2627001101, Chute Mag 32oz, Charcoal Leeds SMU
- Leeds ID# 1627-31OXFD, CB SKU# 2627401101, Chute Mag 32oz, Oxford Leeds SMU

### CamelBak® Chute Mag Vacuum™ Stainless bottles (product of China) in the following configurations:

- Leeds ID# 1627-16BK, CB SKU# 2086005160, Chute Mag SST Vacuum Insulated 20oz, Black Full Leeds SMU
- Leeds ID# 1627-16LRSR, CB SKU# 2086406160, Chute Mag SST Vacuum Insulated 20oz, Larkspur Full Leeds SMU
- Leeds ID# 1627-16MSGR, CB SKU# 2086301160, Chute Mag SST Vacuum Insulated 20oz, Moss Full Leeds SMU
- Leeds ID# 1627-16NY, CB SKU# 2086404160, Chute Mag SST Vacuum Insulated 20oz, Navy Full Leeds SMU
- Leeds ID# 1627-16WH, CB SKU# 2086102160, Chute Mag SST Vacuum Insulated 20oz, White Full Leeds SMU
- Leeds ID# 1627-17BK, CB SKU# 2087002101, Chute Mag SST Vacuum Insulated 32oz, Black Full Leeds SMU
- Leeds ID# 1627-17NY, CB SKU# 2087401101, Chute Mag SST Vacuum Insulated 32oz, Navy Full Leeds SMU
- Leeds ID# 1627-17WH, CB SKU# 2087103101, Chute Mag SST Vacuum Insulated 32oz, White Full Leeds SMU

### CamelBak® Eddy Plus Kids Bottle™ .4L size with Tritan Renew copolyester body, product of China, in the following configurations:

- Leeds ID# 1627-34CL, CB SKU# 2700101141, eddy+ Kids 14oz Blank Bottle, Clear, Leeds SMU
- Leeds ID# 1627-34TUBL, CB SKU# 2700402141, eddy+ Kids 14oz Blank Bottle, True Blue, Leeds SMU

### CamelBak® Eddy Plus Kids Vacuum Stainless™ Bottle, product of China, in the following configurations:

- Leeds ID# 1627-20SL, CB SKU# 2451101135, eddy+ Kids SST Vacuum Insulated 12oz, Bare Steel

### CamelBak® Eddy Plus Bottle™ with Tritan Renew copolyester body, product of China, in the following configurations:

- Leeds ID# 1627-32CA, CB SKU# 2624001160, eddy+ 20oz Charcoal, Leeds SMU
- Leeds ID# 1627-32CL, CB SKU# 2624101160, eddy+ 20oz Clear, Leeds SMU

# Test reports for Chute Mag, Eddy+, Eddy+Kids, and Podium (PCNA)



- Leeds ID# 1627-32OXFD, CB SKU# 2624402160, eddy+ 20oz Oxford, Leeds SMU
- Leeds ID# 1627-33CA, CB SKU# 2613002175, eddy+ 25oz Charcoal, Leeds SMU
- Leeds ID# 1627-33CL, CB SKU# 2613102175, eddy+ 25oz Clear, Leeds SMU
- Leeds ID# 1627-33CRDL, CB SKU# 2613602175, eddy+ 25oz Cardinal, Leeds SMU
- Leeds ID# 1627-33IRIS, CB SKU# 2613503175, eddy+ 25oz Lupine, Leeds SMU
- Leeds ID# 1627-33LA, CB SKU# 2613801175, eddy+ 25oz Lava, Leeds SMU
- Leeds ID# 1627-33OXFD, CB SKU# 2613402175, eddy+ 25oz Oxford, Leeds SMU
- Leeds ID# 1627-33TUBL, CB SKU# 2613403175, eddy+ 25oz True Blue, Leeds SMU

CamelBak® Eddy Plus Stainless Bottle™, vacuum stainless steel bottle body, product of China, in the following configurations:

- Leeds ID# 1627-13JET, CB SKU# 2228002160, eddy+ SST Vacuum Insulated 20oz, Jet, Leeds SMU
- Leeds ID# 1627-13NY, CB SKU# 2228401160, eddy+ SST Vacuum Insulated 20oz, Navy, Leeds SMU
- Leeds ID# 1627-13WH, CB SKU# 2228101160, eddy+ SST Vacuum Insulated 20oz, White, Leeds SMU

are satisfied by the attached test reports, summarized as follows:

Lab	report ID	report date	pages	Tested Item	Requirement
SGS Guangzhou	GZHL2203007682CW	3/23/2022	8	Food contact plastic parts in Chute Mag, Eddy+, and Eddy+ Kids	FDA 21 CFR, plastics in food contact
SGS Guangzhou	GZHL2103006232CW	3/12/2021	47	Podium caps and cap parts	FDA 21 CFR, plastics in food contact
SGS Guangzhou	GZHL2103010815CW	4/14/2021	26	Podium vessels	FDA 21 CFR, plastics in food contact
SGS Guangzhou	GZHL2203100408SD	3/30/2022	11	Marabu base inks+additives	Canada lead in coatings
SGS Guangzhou	GZHL2203100697SD	4/6/2022	15	All plastic parts in Chute Mag, Eddy+, Eddy+ Kids, Podium	Canada lead in substrates

The technical construction file and supplemental information required by the regulation is maintained at the corporate headquarters of:


**CamelBak Products, LLC at 2000 South McDowell Blvd, Suite 200, Petaluma, CA 94954 USA**

The authorized representative located within the European Community is:

**CamelBak Products, LLC, River House, St. Mary's Road, Newcastle West, Ireland**

I, the undersigned, hereby declare that the products specified above conform to the listed directives and standards.

Name: Mitch Gordon

Signature: 

Company Title: Regulatory Manager

Date: April 25, 2022

CAMELBAK PRODUCTS LLC  
2000 S. MCDOWELL BLVD, SUITE 200, PETALUMA, CA 94954, USA

Sample Description : SEE ATTACHMENT  
Client Reference Information : Please refer to the following page(s)  
Manufacturer : HAYCO ENTERPRISES (SHENZHEN) LTD.

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : CAN22-036898, SHA22-045736  
Sample Receiving Date : Mar 09, 2022  
Test Performing Date : Mar 09, 2022 to Mar 22, 2022  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) :

Test Requested	Result
FDA 21 CFR 177.1210–Chloroform-soluble extractive residues	PASS
FDA 21 CFR 177.2600–Total extractive residues	PASS
FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane	PASS
FDA 21 CFR 177.1520–Maximum soluble fraction in xylene	PASS
FDA 21 CFR 177.1520–Maximum soluble fraction in xylene	PASS
FDA 21 CFR 177.1520–Density at 23°C	PASS
US FDA 21 CFR 177.1240–Total extractives	See Results

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Shiny Hu  
Authorized Signatory



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**Client Reference Information:  
ATTACHMENT:**

No.	Part Number	Description	Part Type	Material	Hayco number	SGS Sample ID	SGS Description
001	105546101	Straw, eddy+ Kids SW .4L, natural	Straw	LDPE	RTL014600001GP	CAN22-036898.001	Translucent plastic straw
002	102918001	Cap, Chute Mag, Black/Black	cap	PP copolymer	RML0432K0004GP	CAN22-036898.002	Black plastic lid(2#)
003	103510001	Base Cap, eddy+, Black/Black	cap	PP copolymer	RMK0440K0102GP	CAN22-036898.003	Black plastic lid(3#)
004	105232001	cap, Eddy+Kids, Black/Black	cap	PP copolymer	RMK0465K0102GP	CAN22-036898.004	Black plastic lid(4#)
005	105232401	cap, Eddy+Kids, Blue (2935c)/Blue (2935c)	cap	PP copolymer	RMK0465LL102GP	CAN22-036898.005	Blue plastic lid(5#)
006	103517101	Bite Valve, eddy+, Clear	bite valve	Silicone	RPK4249C0001GP	CAN22-036898.006	Translucent silicone
007	104411001	Gasket, Main Cap, Swig, Dk.Grey (RAL7012)	gasket	Silicone	RPK4199E4101GP	CAN22-036898.007	Dk-grey silicone ring
008	103540001	Vent Valve, eddy+, Lt.Grey	vent valve	Silicone	RPK4175UD000GP	CAN22-036898.008	Grey silicone
009	106619501	bottle, Tritan Rnw, .75L/25oz, Purple (2613c)/Lupine (Acai)	Tritan renew vessel	Tritan copolyester	RPC4557PV001SGP	SHA22-045736.001	Translucent purple plastic bottle(1)
010	106619602	bottle, Tritan Rnw, .75L/25oz, Red (T505-1-2)/Cardinal	Tritan renew vessel	Tritan copolyester	RPC4557RM001SGP	SHA22-045736.002	Translucent red plastic bottle(2)



No.	Part Number	Description	Part Type	Material	Hayco number	SGS Sample ID	SGS Description
011	106619801	bottle, Tritan Rnw, .75L/25oz, Orange (1655c)/Lava	Tritan renew vessel	Tritan copolyester	RPC4557NH001SGP	SHA22-045736.003	Translucent orange plastic bottle(3)
012	106616101	bottle, Tritan Rnw, .4L/14oz, Clear	Tritan renew vessel	Tritan copolyester	RPC4308C0101SGP	SHA22-045736.004	Transparent plastic bottle(4)
013	106616401	bottle, Tritan Rnw, .4L/14oz, Blue (2925c)/True Blue	Tritan renew vessel	Tritan copolyester	RPC4308Z1101SGP	SHA22-045736.005	Translucent blue plastic bottle(5)
014	106617001	bottle, Tritan Rnw, .6L/20oz, Dk. Grey (T705-1-3)/Charcoal	Tritan renew vessel	Tritan copolyester	RPC3893UR001SGP	SHA22-045736.006	Translucent black plastic bottle(6)
015	106617402	bottle, Tritan Rnw, .6L/20oz, Dk. Blue (7461C)/Oxford	Tritan renew vessel	Tritan copolyester	RPC3893TV001SGP	SHA22-045736.007	Translucent dark blue plastic bottle(7)



Test Results :

**FDA 21 CFR 177.1210–Chloroform-soluble extractive residues**

Test Method : With reference to US FDA 21 CFR 177.1210.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 007</u>
8% Ethanol	2.0hr(s)	150°F	50ppm	<5ppm
n-Heptane	0.5hr(s)	100°F	50ppm	<5ppm
Distilled Water	2.0hr(s)	150°F	50ppm	<5ppm

Notes :

1. ppm = mg/kg = milligram per kilogram of foodstuff in contact with
2. Test sample was applied to container with capacity of 0.75 L.

**FDA 21 CFR 177.2600–Total extractive residues**

Test Method : With reference to US FDA 21 CFR 177.2600.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch <sup>2</sup>
Succeeding Extraction	2.0hr(s)		1mg/inch <sup>2</sup>
n-Hexane	7.0hr(s)		175mg/inch <sup>2</sup>
Succeeding Extraction	2.0hr(s)		4mg/inch <sup>2</sup>

<u>Simulant Used</u>	<u>Result of 006</u>	<u>Result of 008</u>
Distilled Water	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
Succeeding Extraction	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
n-Hexane	25.4mg/inch <sup>2</sup>	17.1mg/inch <sup>2</sup>
Succeeding Extraction	1.5mg/inch <sup>2</sup>	1.1mg/inch <sup>2</sup>

Notes :

mg/inch<sup>2</sup>= milligram per square inch



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**FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane**

Test Method : With reference to US FDA 21 CFR 177.1520 d(3)(ii).

Simulant Used	Time	Temperature	Max. Permissible Limit
n-Hexane	2hr(s)	50°C	5.5%(w/w)

Simulant Used	Result of 001	Result of 002	Result of 003	Result of 004
n-Hexane	0.5%(w/w)	<0.5%(w/w)	0.7%(w/w)	0.6%(w/w)

Simulant Used	Result of 005
n-Hexane	<0.5%(w/w)

Notes :

%w/w = percentage of weight by weight

**FDA 21 CFR 177.1520–Maximum soluble fraction in xylene**

Test Method : With reference to US FDA 21 CFR 177.1520 d(4)(ii).

Test Item(s)	Limit	Unit	MDL	Result of 001
Soluble fraction in Xylene	11.3	%(w/w)	0.5	1.3

Notes :

1.%w/w = percentage of weight by weight

2.ND= Not Detected(less than MDL)



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**FDA 21 CFR 177.1520–Maximum soluble fraction in xylene**

Test Method : With reference to US FDA 21 CFR 177.1520 d(4)(ii).

Test Item(s)	Limit	Unit	MDL	Result of 002	Result of 003	Result of 004
Soluble fraction in Xylene	30	%(w/w)	0.5	28.8	25.3	26.3

Test Item(s)	Limit	Unit	MDL	Result of 005
Soluble fraction in Xylene	30	%(w/w)	0.5	16.7

Notes :

- 1.%w/w = percentage of weight by weight
- 2.ND= Not Detected(less than MDL)

**FDA 21 CFR 177.1520–Density at 23°C**

Test Method : With reference to US FDA 21 CFR 177.1520 d(1).

Test Item(s)	Limit	Result of 001
Density at 23°C, g/ cm <sup>3</sup>	0.850 - 1.000	0.917

**FDA 21 CFR 177.1520–Density at 23°C**

Test Method : With reference to US FDA 21 CFR 177.1520 d(1).

Test Item(s)	Limit	Result of 002	Result of 003	Result of 004
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.894	0.891	0.893

Test Item(s)	Limit	Result of 005
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.899



**US FDA 21 CFR 177.1240–Total extractives**

Test Method : As specified in US FDA 21 CFR 177.1240

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>
Distilled water	2hr(s)	reflux temperature	0.05%
Ethyl acetate			0.70%
n-Hexane			0.05%

<u>Simulant Used</u>	<u>Result of 009 Total Extractives</u>	<u>Result of 010 Total Extractives</u>	<u>Result of 011 Total Extractives</u>	<u>Result of 012 Total Extractives</u>
Distilled water	<0.01%	0.01%	<0.01%	0.03%
Ethyl acetate	0.30%	0.35%	0.33%	<0.01%
n-Hexane	<0.01%	<0.01%	<0.01%	<0.01%

<u>Simulant Used</u>	<u>Result of 013 Total Extractives</u>	<u>Result of 014 Total Extractives</u>	<u>Result of 015 Total Extractives</u>
Distilled water	0.01%	0.04%	0.01%
Ethyl acetate	<0.01%	<0.01%	<0.01%
n-Hexane	<0.01%	<0.01%	<0.01%

Remarks :

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected ( < MDL)



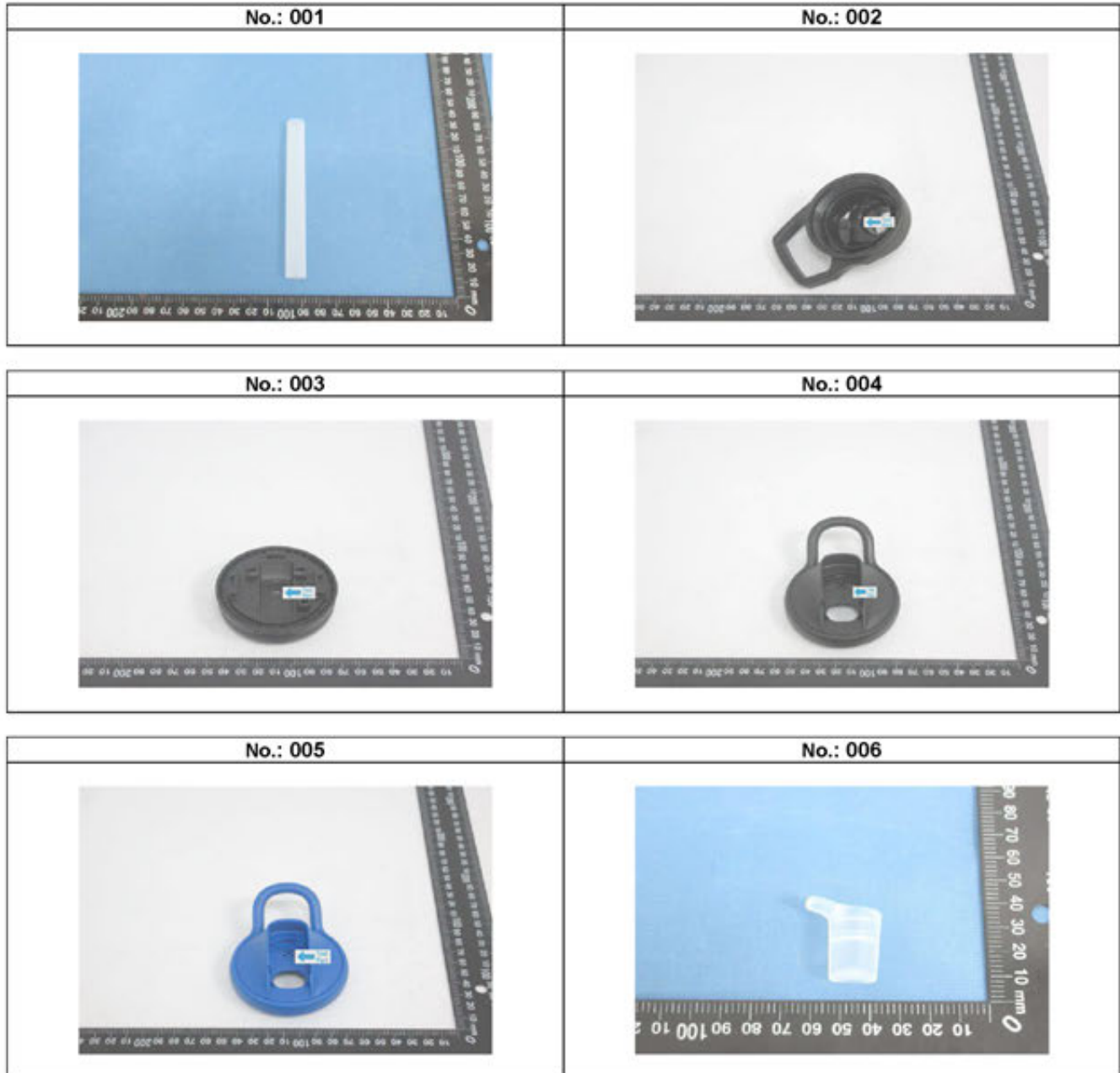
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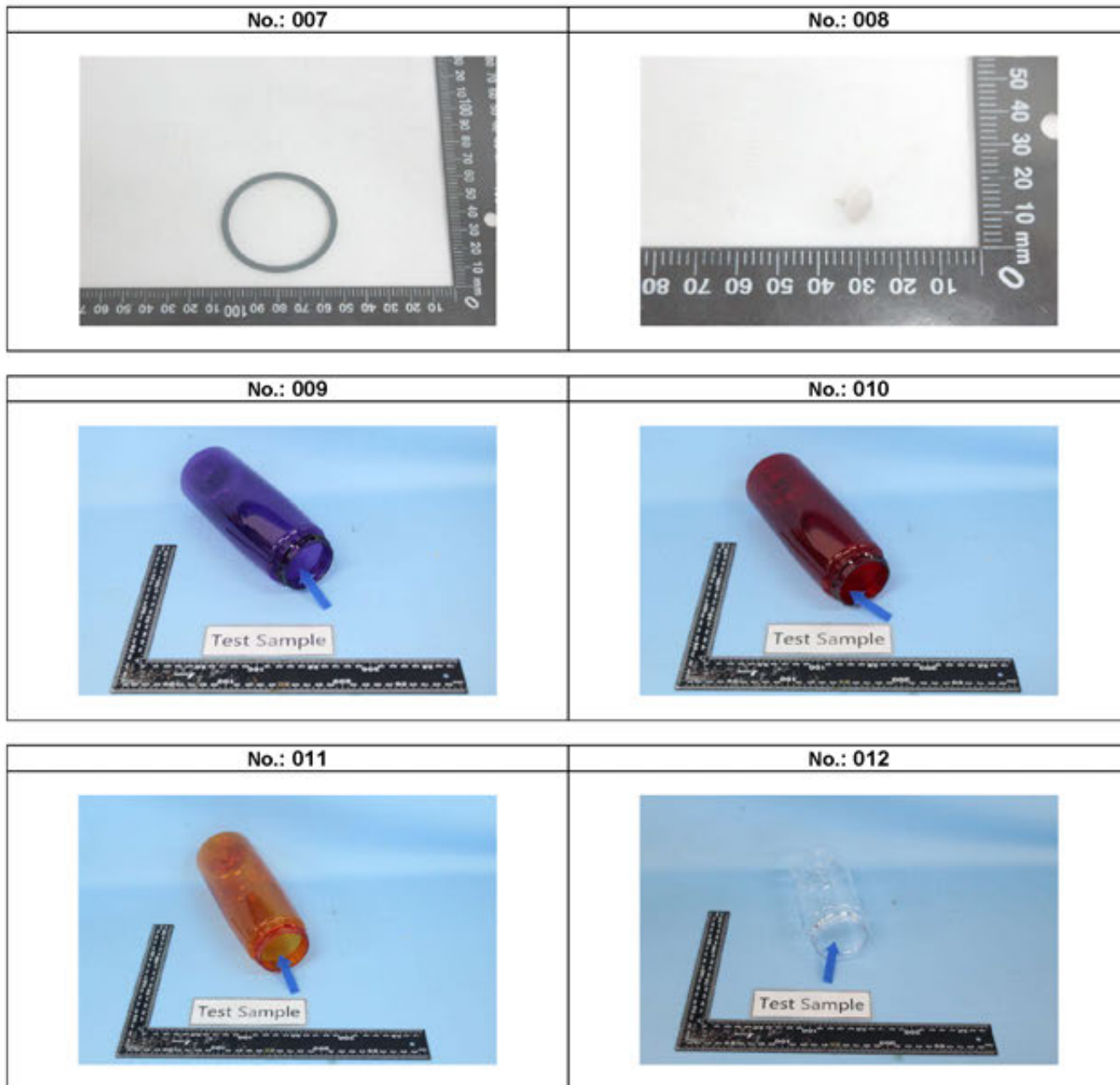
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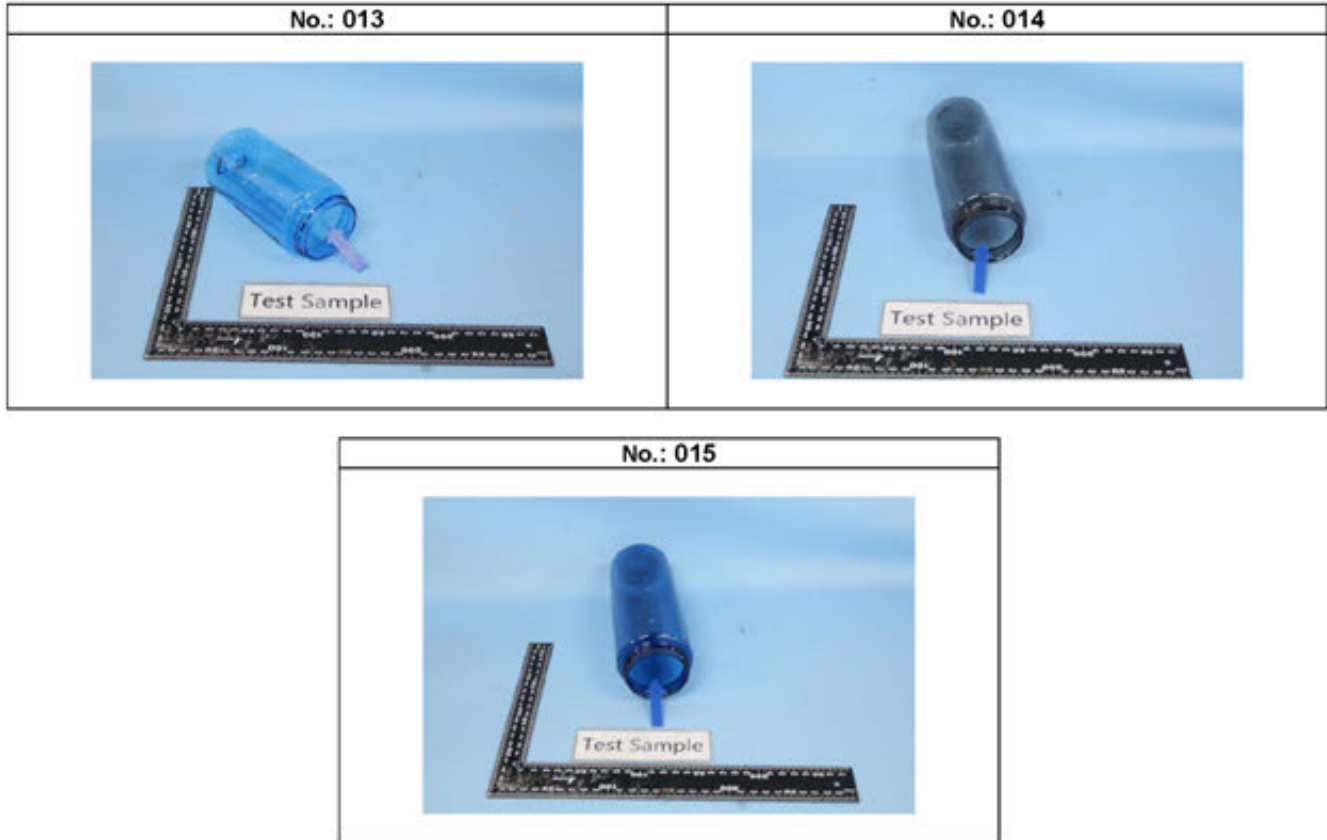
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\*\*\*End of Report\*\*\*



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CAMELBAK PRODUCTS LLC  
2000 S. MCDOWELL BLVD, SUITE 200, PETALUMA, CA 94954, USA

Sample Description : SEE ATTACHMENT  
Manufacturer : HAYCO ENTERPRISE (SHENZHEN) CO., LTD.

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : CAN21-028369, CAN21-028727  
Sample Receiving Date : Mar 02, 2021  
Test Performing Date : Mar 02, 2021 to Mar 12, 2021  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
Entry 51 & 52 of Commission Regulation (EU) 2018/2005 & Commission Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates	PASS
Bisphenol-S	See Results
Bisphenol F (BPF)	See Results
FDA 21 CFR 177.2470-Chloroform-soluble extractive residues	PASS
FDA 21 CFR 177.2470-Total extractive residues	PASS
FDA 21 CFR 177.2600-Total extractive residues	PASS
FDA 21 CFR 177.1520-Maximum extractable fraction in n-Hexane	PASS
FDA 21 CFR 177.1520-Maximum soluble fraction in xylene	PASS
FDA 21 CFR 177.1520-Density at 23°C	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 5 – Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific Migration of Bisphenol A	See Results
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation- Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific Migration of Heavy Metal	PASS



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Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



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Shiny Hu  
Authorized Signatory



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**Client Reference Information:  
ATTACHMENT:**

Item	Part Number	Description	Material	Hayco part no.	SGS Sample ID	Description
1	103494406	Cap, Pod 3.0, Blue (2935c)	PP copolymer	RPX4133LL000GP	CAN21-028369.001	Blue plastic(cap , "#1")
					CAN21-028727.001	Blue plastic cap
2	103494606	Cap, Pod 3.0, Dk.Red (7421c)	PP copolymer	RPX4133RV000GP	CAN21-028727.002	Dk-purple plastic cap
3	10349404	Cap, Pod 3.0, Cookies and Cream	PP copolymer	RPX4133WS000GP	CAN21-028727.003	Lt-grey plastic cap w/ black spot
4	103494402	Cap, Pod 3.0, Navy (Medieval Blue)	PP copolymer	RPX4133BQ000GP	CAN21-028727.004	Dk-blue plastic cap
5	103494408	Cap, Pod 3.0, Navy Blue(289C) Pearlized	PP copolymer	RPX4133B4000GP	CAN21-028727.005	Dk-blue pearlized plastic cap
6	103494801	Cap, Pod 3.0, Koi (7579c)	PP copolymer	RPX4133NR000GP	CAN21-028727.006	Orange plastic cap
7	103494502	Cap, Pod 3.0, Plum (520c)	PP copolymer	RPX4133A4000GP	CAN21-028727.007	Purple plastic cap
8	103494001	Cap, Pod 3.0, Black	PP copolymer	RPX4133K0000GP	CAN21-028727.008	Black plastic cap(8#)
9	103494604	Cap, Pod 3.0, Red (200c)	PP copolymer	RPX4133RX000GP	CAN21-028727.009	Red plastic cap
10	103494002	Cap, Pod 3.0, Smoke	PP copolymer	RPX4133EG000GP	CAN21-028727.010	Black plastic cap(10#)
11	103494101	Cap, Pod 3.0, White	PP copolymer	RPX4133W0000GP	CAN21-028727.011	White plastic cap
12	103494701	Cap, Pod 3.0, Yellow (114c)	PP copolymer	RPX4133YT000GP	CAN21-028727.012	Yellow plastic cap
13	103492002	Keep Cap, Pod 3.0, Lt.Grey (CG 7c)	Silicone	RPK4134E4000GP	CAN21-028369.002	Gray translucent soft plastic(keep cap , "#13")
					CAN21-028727.013	Grey translucent silicone plug



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Item	Part Number	Description	Material	Hayco part no.	SGS Sample ID	Description
14	103475001	Lockout O-Ring, Pod 3.0, Black	Silicone	RPK4171K0000GP	CAN21-028369.003	Black soft plastic(ring , "#14")
					CAN21-028727.014	Black silicone ring
15	103472101	Nozzle, Pod 3.0, Clear	Silicone	RPK4137C0000GP	CAN21-028369.004	Transparent soft plastic(nozzle , "#15")
					CAN21-028727.015	Translucent silicone nozzle
16	101853101	Cross-slit valve, Pod 3.0 (component of 103946101 assy)	Silicone	RPX4313C0001GP	CAN21-028369.005	Transparent soft plastic(valve , "#16")
					CAN21-028727.016	White silicone
17	103471101	Suresnap ring, Pod 3.0 (component of 103946101 assy)	PP copolymer	RPX4313C0001GP	CAN21-028369.006	Transparent plastic(ring , "#17")
					CAN21-028727.017	White plastic
18	105226001	Support ring,Grey	Acetal (POM)	RPD4324UT000GP	CAN21-028369.007	Gray plastic(ring , "#18")
					CAN21-028727.018	Dk-grey plastic ring



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Test Results :

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**Entry 51 & 52 of Commission Regulation (EU) 2018/2005 & Commission Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates**

Test Method : With reference to EN 14372:2004 , analysis was performed by GC/MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	1
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	-	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	-	%(w/w)	0.010	ND
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	13
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	-	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	-	%(w/w)	0.010	ND



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Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND
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Test Item(s)	CAS NO.	Limit	Unit	MDL	14
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	-	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	-	%(w/w)	0.010	ND
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	15
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	-	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	-	%(w/w)	0.010	ND
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	16
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	-	%(w/w)	0.010	ND



Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	-	%(w/w)	0.010	ND
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	17
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	-	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	-	%(w/w)	0.010	ND
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	18
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	-	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	-	%(w/w)	0.010	ND
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND

**Notes:**

- (1) DBP, BBP, DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
  - ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of



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DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) 2018/2005 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EU) 2015/326 to get more detail information

### **Bisphenol-S**

Test Method : SGS In-house method (GZTC CHEM-TOP-411-01), analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	1	13	14	15	16	17	18
Bisphenol-S	mg/kg	0.1	ND	ND	ND	ND	ND	ND	ND

### **Bisphenol F (BPF)**

Test Method : With reference to GZTC-R&D-TOP-597 analysis was performed by LC-MS/MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	1	13	14	15	16	17	18
Bisphenol F (BPF)	mg/kg	0.1	ND	ND	ND	ND	ND	ND	ND

### **FDA 21 CFR 177.2470–Chloroform-soluble extractive residues**

Test Method : With reference to US FDA 21 CFR 177.2470.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 18</u>
n-Heptane	0.5hr(s)	70°F	0.5mg/inch <sup>2</sup>	<0.2mg/inch <sup>2</sup>
Distilled Water	24.0hr(s)	120°F		<0.2mg/inch <sup>2</sup>
8%Ethanol	24.0hr(s)	120°F		<0.2mg/inch <sup>2</sup>



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Notes :

mg/inch<sup>2</sup>= milligram per square inch

**FDA 21 CFR 177.2470–Total extractive residues**

Test Method : With reference to US FDA 21 CFR 177.2470.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 18</u>
n-Heptane	6.0hr(s)	reflux temperature	0.15%(w/w)	<0.05%(w/w)
Distilled Water	6.0hr(s)		0.20%(w/w)	<0.05%(w/w)

Notes :

% w/w = percentage of weight by weight

**FDA 21 CFR 177.2600–Total extractive residues**

Test Method : With reference to US FDA 21 CFR 177.2600.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch <sup>2</sup>
Succeeding Extraction	2.0hr(s)		1mg/inch <sup>2</sup>
n-Hexane	7.0hr(s)		175mg/inch <sup>2</sup>
Succeeding Extraction	2.0hr(s)		4mg/inch <sup>2</sup>

<u>Simulant Used</u>	<u>Result of 13</u>	<u>Result of 14</u>	<u>Result of 15</u>	<u>Result of 16</u>
Distilled Water	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
Succeeding Extraction	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
n-Hexane	15.7mg/inch <sup>2</sup>	7.5mg/inch <sup>2</sup>	14.3mg/inch <sup>2</sup>	7.9mg/inch <sup>2</sup>
Succeeding Extraction	0.6mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>

Notes :

mg/inch<sup>2</sup>= milligram per square inch

**FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane**

Test Method : With reference to US FDA 21 CFR 177.1520 d(3)(ii).



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Simulant Used	Time	Temperature	Max. Permissible Limit
n-Hexane	2hr(s)	50°C	5.5%(w/w)

Simulant Used	Result of 1	Result of 2	Result of 3	Result of 4	Result of 5
n-Hexane	<0.5%(w/w)	<0.5%(w/w)	<0.5%(w/w)	<0.5%(w/w)	<0.5%(w/w)

Simulant Used	Result of 6	Result of 7	Result of 17
n-Hexane	<0.5%(w/w)	<0.5%(w/w)	<0.5%(w/w)

Notes :

%w/w = percentage of weight by weight

**FDA 21 CFR 177.1520–Maximum soluble fraction in xylene**

Test Method : With reference to US FDA 21 CFR 177.1520 d(4)(ii).

Test Item(s)	Limit	Unit	MDL
Soluble fraction in Xylene	30	%(w/w)	0.5

Test Item(s)	1	2	3	4	5	6	7	17
Soluble fraction in Xylene	18.1	24.3	19.7	15.3	17.8	5.9	16.7	0.6

Notes :

1.%w/w = percentage of weight by weight

2.ND= Not Detected(less than MDL)

**FDA 21 CFR 177.1520–Density at 23°C**

Test Method : With reference to US FDA 21 CFR 177.1520 d(1).

Test Item(s)	Limit	1	2	3	4	5
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.899	0.899	0.897	0.898	0.898

Test Item(s)	Limit	6	7	17
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.897	0.900	0.936



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**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 5 – Overall migration**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-3:2002 aqueous food simulants by total immersion method;

Simulant Used	Time	Temperature	Max. Permissible Limit
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>
50% Ethanol (V/V) Aqueous Solution			10mg/dm <sup>2</sup>

Simulant Used	Result of 13	Result of 14	Result of 15	Result of 16
	Overall Migration	Overall Migration	Overall Migration	Overall Migration
3% Acetic Acid (W/V) Aqueous Solution	<3.0mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
50% Ethanol (V/V) Aqueous Solution	<3.0mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

Notes :

1. mg/dm<sup>2</sup> = milligram per square decimeter  
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Analytical tolerance of aqueous simulants is 2mg/dm<sup>2</sup> or 12mg/kg
4. Analytical tolerance of fatty food simulants is 3mg/dm<sup>2</sup> or 20mg/kg
5. Report the third migration result
6. Result(s) was/were calculated based on the total contact surface of the sealing article and sealed container provided by client.

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation–Specific Migration of Bisphenol A**

Test Method : With reference to EN13130-1:2004, analysis was performed by HPLC-MS/MS.

Test Item(s)	Unit	MDL	Test Condition : 40 °C 24.0hr(s)
Migration times	-	-	
Area/Volume	dm <sup>2</sup> /kg	-	
Specific migration of Bisphenol-A	mg/kg	0.01	



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Test Item(s)	Simulant Used	Max. Permissible Limit	Test result of 1
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	2.6
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	2.6
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	2.6
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	2.6
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	2.6
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	2.6
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>

Test Item(s)	Simulant Used	Max. Permissible Limit	Test result of 13
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	0.23
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.23
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.23



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Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	0.23
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.23
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.23
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			

Test Item(s)	Simulant Used	Max. Permissible Limit	Test result of 14
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	0.079
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.079
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.079
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	0.079
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.079
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd



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Area/Volume	-	0.079
Specific migration of Bisphenol-A	0.05	ND
<b>Stability</b>		<b>YES</b>

Test Item(s)	Simulant Used	Max. Permissible Limit	Test result of 15
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	0.35
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.35
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.35
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	0.35
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.35
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.35
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			

Test Item(s)	Simulant Used	Max. Permissible Limit	Test result of 16
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	0.075
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd



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Area/Volume		-	0.075
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.075
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	0.075
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.075
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.075
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			

<u>Test Item(s)</u>	<u>Simulant Used</u>	<u>Max. Permissible Limit</u>	Test result of 17
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	0.11
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.11
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.11
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	0.11
Specific migration of Bisphenol-A		-	ND



Migration times		-	2nd
Area/Volume		-	0.11
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.11
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>

Test Item(s)	Simulant Used	Max. Permissible Limit	Test result of 18
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	0.15
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.15
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.15
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	0.15
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	0.15
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	0.15
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with



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2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)
5. For 013-016, Limit = Reference limit. The test sample is out of scope of the standard.

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation– Overall migration**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-3:2002 aqueous food simulants by total immersion method;

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test Condition : 70°C 2.0hr(s)
First Migration	-	mg/dm <sup>2</sup>	3.0	
Second Migration	-	mg/dm <sup>2</sup>	3.0	
Third Migration	10.0	mg/dm <sup>2</sup>	3.0	

Test Item(s)	Simulant Used	Test result of 1	Test result of 2	Test result of 3
First Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>
First Migration	50% Ethanol (V/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>

Test Item(s)	Simulant Used	Test result of 4	Test result of 5	Test result of 8
First Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>
First Migration	50% Ethanol (V/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>

Test Item(s)	Simulant Used	Test result of 9	Test result of 10	Test result of 11
First Migration		<3.0	<3.0	<3.0



Second Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>
First Migration	50% Ethanol (V/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>

Test Item(s)	Simulant Used	Test result of 12	Test result of 17	Test result of 18
First Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>
First Migration	50% Ethanol (V/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>

**Notes :**

1. mg/dm<sup>2</sup> = milligram per square decimeter  
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Analytical tolerance of aqueous simulants is 2mg/dm<sup>2</sup> or 12mg/kg
4. Analytical tolerance of fatty food simulants is 3mg/dm<sup>2</sup> or 20mg/kg
5. Result(s) was/were calculated based on the total contact surface of the sealing article and sealed container provided by client.

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation –Specific Migration of Heavy Metal**

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-MS.

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 40°C 24.0hr(s)



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<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 1</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	0.2
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 1</u>
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND



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Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 1
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND



Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 2</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 2</u>
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND



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Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 2
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND



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Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 3</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 3</u>
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6



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Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 3
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND



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Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 4</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND



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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 4
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 4
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND



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Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 5</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND



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Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 5
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 5
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND



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Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 8</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND



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Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 8
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 8
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6



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Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 9</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND



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Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 9
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND



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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 9
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 10
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND



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Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 10
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>3</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND



Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 10
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 11
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND



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Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 11
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND



Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 11
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 12
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6



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Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 12
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND



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Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 12
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	2.6
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>



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<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	Test result of 17
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	0.11
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	Test result of 17
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	0.11
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND



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Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 17
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	0.11
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND



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Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	Test result of 18
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	0.15
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	Test result of 18
Migration times	-	-	-	2nd
Area/Volume	-	dm <sup>2</sup> /kg	-	0.15
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND



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Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.5	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.25	ND
Iron (Fe)	-	mg/kg	0.25	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 18
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	0.15
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.25	ND
Iron (Fe)	48	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND



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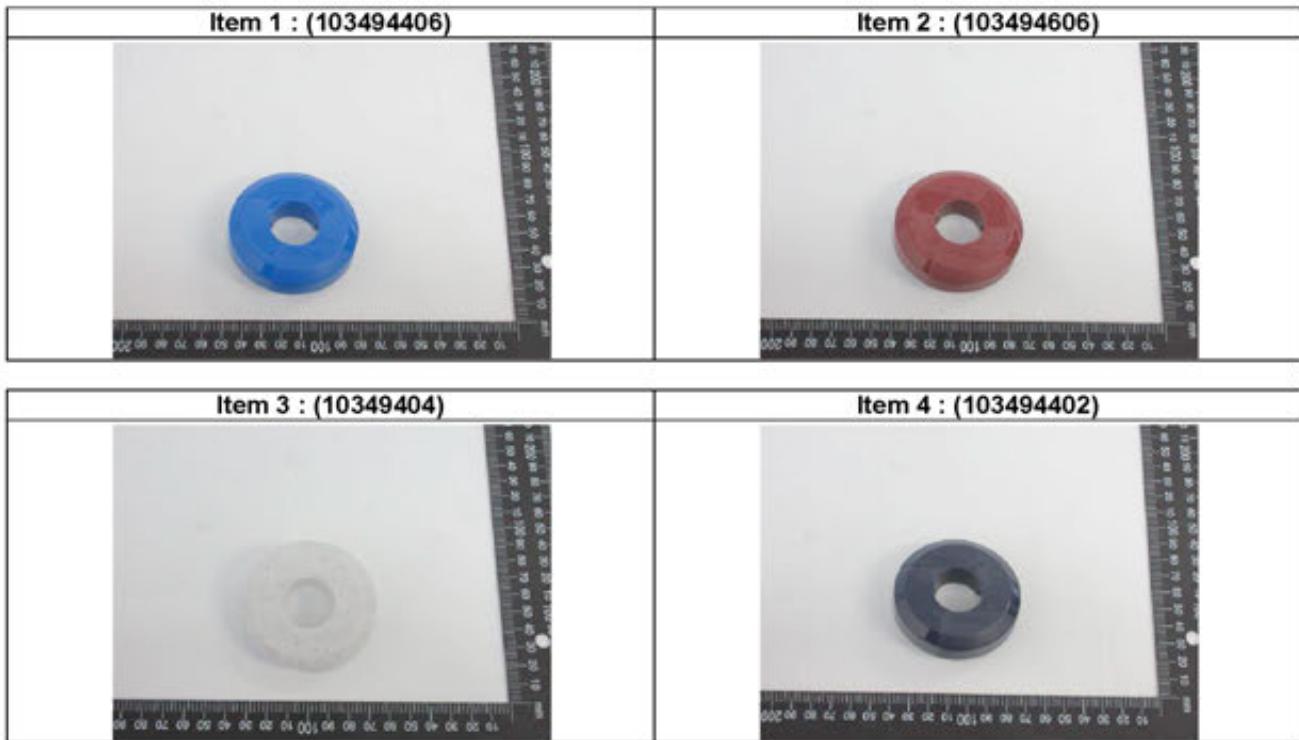
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Lanthanum (La)	-	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.01	ND
Gadolinium (Gd)	-	mg/kg	0.01	ND
Terbium (Tb)	-	mg/kg	0.01	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
<b>Stability</b>				<b>YES</b>

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)

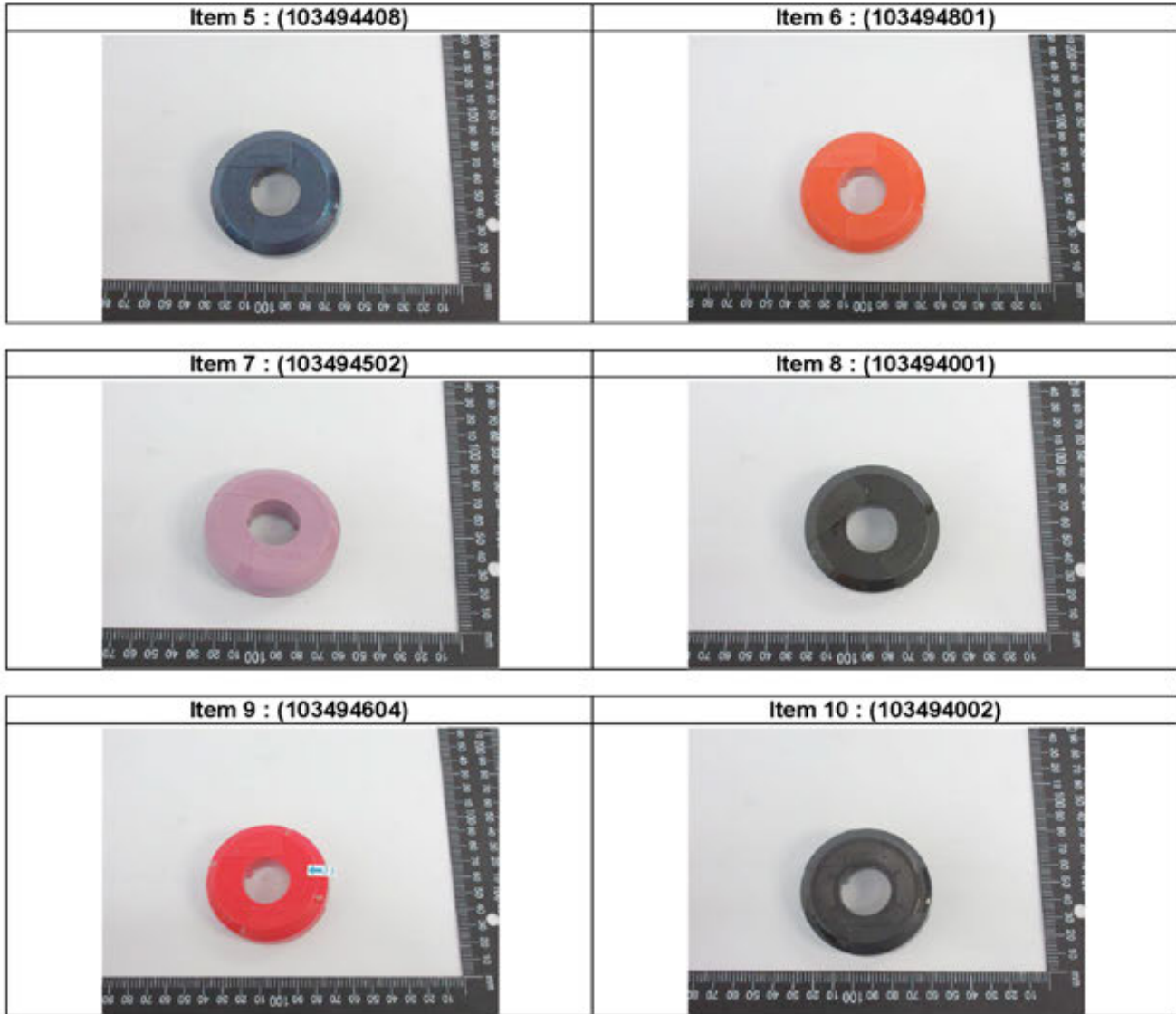
Sample photo:



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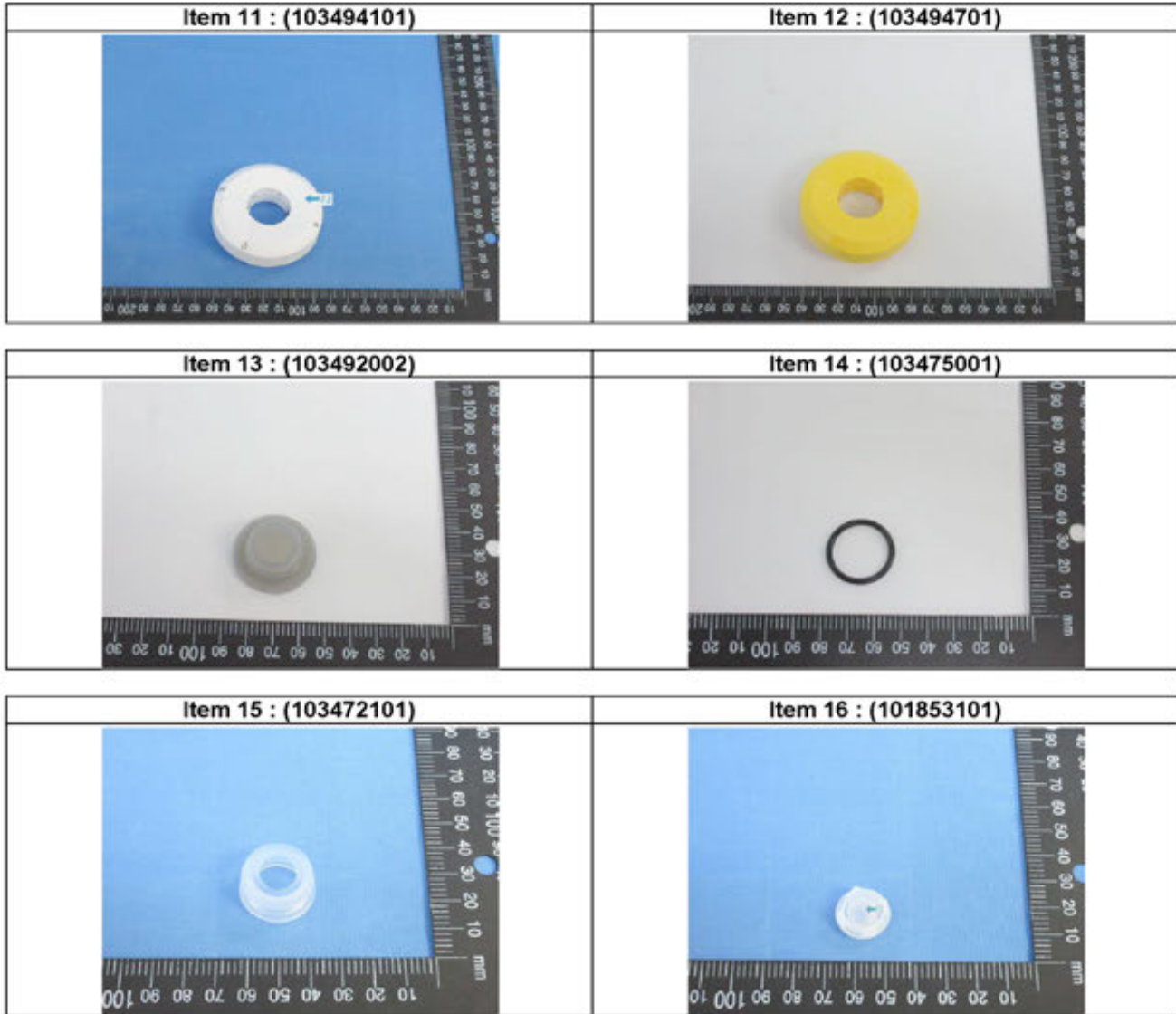
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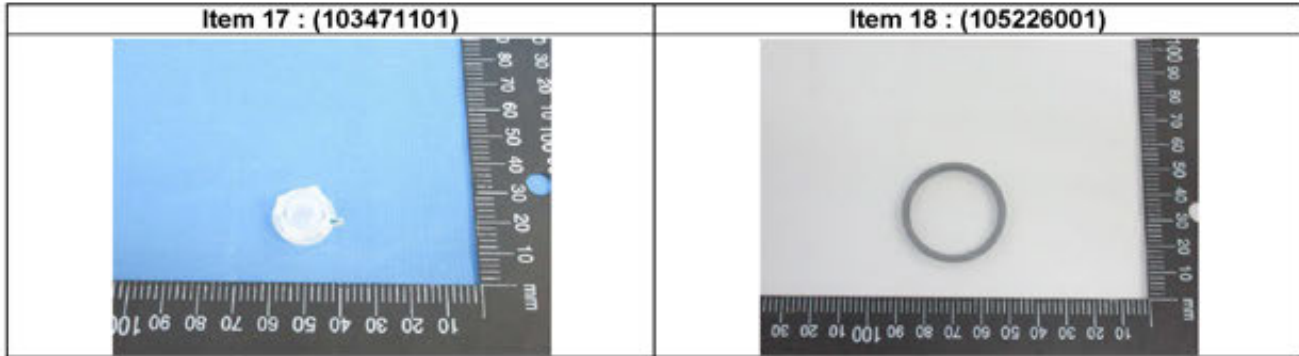
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CAMELBAK PRODUCTS LLC  
2000 S. MCDOWELL BLVD, SUITE 200, PETALUMA, CA 94954, USA

Sample Description : SEE ATTACHMENT  
 Manufacturer : HAYCO ENTERPRISE (SHENZHEN) CO., LTD.  
 Manufacturer Address : 2ND INDUSTRIAL ESTATE, YAN CHUAN, SONGGANG, BAOAN,  
 SHENZHEN, GUANGDONG, CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*

SGS Ref No. : CAN21-049193, CAN21-049537  
 Sample Receiving Date : Mar 30, 2021  
 Test Performing Date : Mar 31, 2021 to Apr 12, 2021  
 Test Performed : Selected test(s) as requested by applicant  
 Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
Bisphenol-S	See Results
Bisphenol F (BPF)	See Results
Entry 51 & 52 of Commission Regulation (EU) 2018/2005 & Commission Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation—Specific Migration of Bisphenol A	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation— Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation —Specific Migration of Heavy Metal	PASS
FDA 21 CFR 177.1520—Maximum extractable fraction in n-Hexane	PASS
FDA 21 CFR 177.1520—Maximum soluble fraction in xylene	PASS



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FDA 21 CFR 177.1520–Density at 23°C	PASS
FDA 21 CFR 177.2600–Total extractive residues	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Yan Lau  
 Authorized Signatory



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**Client Reference Information:  
ATTACHMENT:**

Item	Part Number	Description	Material	Hayco part no.	SGS Sample ID	SGS Description
1	10348802	Vessel, complete, Pod 3.0, 24oz, Cookies and Cream	PP+SEBS	RPX4147WS100GP	CAN21-049193.001 CAN21-049537.001	White translucent plastic bottle w/ black spot(1#)
2	103481801	Vessel, complete, PF 24oz, Koi (7579c)	PP+SEBS	RPX4238NR002GP	CAN21-049537.002	Orange plastic bottle(2#)
3	103488404	Vessel, complete, Pod 3.0, 24oz, Navy Blue(289C) Pearlized	PP+SEBS	RPX4147B4000GP	CAN21-049537.003	Dk-blue plastic bottle(3#)
4	103488001	Vessel, complete, Pod 3.0, 24oz, Black	PP+SEBS	RPX4147K0000GP	CAN21-049537.004	Black plastic bottle(4#)
5	103488402	Vessel, complete, Pod 3.0, 24oz, Blue (2935c)	PP+SEBS	RPX4147LL000GP	CAN21-049537.005	Blue plastic bottle(5#)
6	103488101	Vessel, complete, Pod 3.0, 24oz, Clear	PP+SEBS	RPX4147C0000GP	CAN21-049537.006	Translucent plastic bottle(6#)
7	103489301	Vessel, complete, Pod 3.0, 21oz, Lime/Green (2299c)	PP+SEBS	RPX4146JE000GP	CAN21-049537.007	Green plastic bottle(7#)
8	103488601	Vessel, complete, Pod 3.0, 24oz, Red (200c)	PP+SEBS	RPX4147RX000GP	CAN21-049537.008	Red plastic bottle(8#)
9	103488301	Vessel, complete, Pod 3.0, 24oz, Sage (5565c)	PP+SEBS	RPX4147HY000GP	CAN21-049537.009	Cyan plastic bottle(9#)
10	103487001	Inner Vessel, complete, Pod 3.0 Chill 21oz, Silver	PP+SEBS	RPX4148S1000GP	CAN21-049537.010	Grey plastic bottle(10#)



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11	103488002	Vessel, complete, Pod 3.0, 24oz, Smoke	PP+SEBS	RPX4147EG000GP	CAN21-049537.011	Grey translucent plastic bottle(11#)
12	103488102	Vessel, complete, Pod 3.0, 24oz, White	PP+SEBS	RPX4147W0000GP	CAN21-049537.012	White plastic bottle(12#)
13	10348802-PP	Vessel, PP only, Pod 3.0, 24oz, Cookies and Cream	PP copolymer	RPP4147WS100GP	CAN21-049537.013	White translucent plastic bottle w/ black spot(13#)
14	103481801-PP	Vessel, PP only, PF 24oz, Koi (7579c)	PP copolymer	RPP4238NR002GP	CAN21-049537.014	Orange plastic bottle(14#)
15	103488404-PP	Vessel, PP only, Pod 3.0, 24oz, Navy Blue(289C) Pearlized	PP copolymer	RPP4147B4000GP	CAN21-049537.015	Dk-blue plastic bottle(15#)
16	103488001-PP	Vessel, PP only, Pod 3.0, 21oz, Black	PP copolymer	RPP4147K0000GP	CAN21-049537.016	Black plastic bottle(16#)
17	103488402-PP	Vessel, PP only, Pod 3.0, 24oz, Blue (2935c)	PP copolymer	RPP4147LL000GP	CAN21-049537.017	Blue plastic bottle(17#)
18	103488101-PP	Vessel, PP only, Pod 3.0, 24oz, Clear	PP copolymer	RPP4147C0000GP	CAN21-049537.018	Translucent plastic bottle(18#)
19	103489301-PP	Vessel, PP only, Pod 3.0, 21oz, Lime/Green (2299c)	PP copolymer	RPP4146JE000GP	CAN21-049537.019	Green plastic bottle(19#)
20	103488601-PP	Vessel, PP only, Pod 3.0, 24oz, Red (200c)	PP copolymer	RPP4147RX000GP	CAN21-049537.020	Red plastic bottle(20#)
21	103488301-PP	Vessel, PP only, Pod 3.0, 24oz, Sage (5565c)	PP copolymer	RPP4147HY000GP	CAN21-049537.021	Cyan plastic bottle(21#)
22	103487001-PP	Inner Vessel, PP only, Pod 3.0 Chill 21oz, Silver	PP copolymer	RPP4148S1000GP	CAN21-049537.022	Grey plastic bottle(22#)
23	103488002-	Vessel, PP	PP copolymer	RPP4147EG000GP	CAN21-049537.023	Grey translucent



	PP	only, Pod 3.0, 24oz, Smoke				plastic bottle(23#)
24	103488102-PP	Vessel, PP only, Pod 3.0, 24oz, White	PP copolymer	RPP4147W0000GP	CAN21-049537.024	White plastic bottle(24#)



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Test Results :

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**Bisphenol-S**

Test Method : SGS In-house method (GZTC CHEM-TOP-411-01), analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	Result of 1
Bisphenol-S	mg/kg	0.1	ND

**Bisphenol F (BPF)**

Test Method : With reference to GZTC-R&D-TOP-597 analysis was performed by LC-MS/MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	Result of 1
Bisphenol F (BPF)	mg/kg	0.1	ND

**Entry 51 & 52 of Commission Regulation (EU) 2018/2005 & Commission Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalates**

Test Method : With reference to EN 14372:2004 , analysis was performed by GC/MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	Result of 1
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%(w/w)	0.003	ND
Total (DBP + BBP + DEHP+DIBP)	-	0.1	%(w/w)	-	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	-	%(w/w)	0.010	ND



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Di-n-octyl Phthalate (DNOP)	117-84-0	-	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	-	%(w/w)	0.010	ND
Total (DINP+DNOP+DIDP)	-	0.1	%(w/w)	-	ND

**Notes :**

(1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) 2018/2005 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EU) 2015/326 to get more detail information

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific Migration of Bisphenol A**

Test Method : With reference to EN13130-1:2004,analysis was performed by HPLC-MS/MS.

Test Item(s)	Unit	MDL	Test Condition : 40 ℃ 24.0hr(s)
Migration times	-	-	
Area/Volume	dm <sup>2</sup> /kg	-	
Specific migration of Bisphenol-A	mg/kg	0.01	



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Test Item(s)	Simulant Used	Max. Permissible Limit	Test result of 1
Migration times	3% Acetic Acid (W/V)	-	1st
Area/Volume		-	6.7
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	6.7
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	6.7
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>
Migration times	50% Ethanol (V/V) Aqueous Solution	-	1st
Area/Volume		-	6.7
Specific migration of Bisphenol-A		-	ND
Migration times		-	2nd
Area/Volume		-	6.7
Specific migration of Bisphenol-A		-	ND
Migration times		-	3rd
Area/Volume		-	6.7
Specific migration of Bisphenol-A		0.05	ND
<b>Stability</b>			<b>YES</b>

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)



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**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation– Overall migration**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-9:2002 aqueous food simulants by article filling method;

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test Condition : 70°C 2.0hr(s)
First Migration	-	mg/dm <sup>2</sup>	3.0	
Second Migration	-	mg/dm <sup>2</sup>	3.0	
Third Migration	10.0	mg/dm <sup>2</sup>	3.0	

Test Item(s)	Simulant Used :	Result of 1	Result of 2	Result of 3
First Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
Stability		YES	YES	YES
First Migration	50% Ethanol (V/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
Stability		YES	YES	YES

Test Item(s)	Simulant Used :	Result of 4	Result of 5	Result of 6
First Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
Stability		YES	YES	YES
First Migration	50% Ethanol (V/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	4.2
Third Migration		<3.0	<3.0	<3.0
Stability		YES	YES	YES

Test Item(s)	Simulant Used :	Result of 7	Result of 8	Result of 9
First Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
Stability		YES	YES	YES
First Migration	50% Ethanol (V/V)	<3.0	<3.0	<3.0



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Second Migration	Aqueous Solution	<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>

Test Item(s)	Simulant Used :	Result of 10	Result of 11	Result of 12
First Migration	3% Acetic Acid (W/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>
First Migration	50% Ethanol (V/V) Aqueous Solution	<3.0	<3.0	<3.0
Second Migration		<3.0	<3.0	<3.0
Third Migration		<3.0	<3.0	<3.0
<b>Stability</b>		<b>YES</b>	<b>YES</b>	<b>YES</b>

**Notes :**

1. mg/dm<sup>2</sup> = milligram per square decimeter  
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Analytical tolerance of aqueous simulants is 2mg/dm<sup>2</sup> or 12mg/kg
4. Analytical tolerance of fatty food simulants is 3mg/dm<sup>2</sup> or 20mg/kg

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation –Specific Migration of Heavy Metal**

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-MS.

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 40°C 24.0hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 1		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND



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Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 2		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND



Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 3		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>



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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 4		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 5		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND



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Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 6		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND



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Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 7		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>



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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 8		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 9		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND



Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 10		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND



Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 11		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>



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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result of 12		
				1st	2nd	3rd
Migration times	-	-	-	1st	2nd	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.7	6.7	6.7
Chromium (Cr)	ND	mg/kg	0.01	ND	ND	ND
Arsenic (As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND	ND	ND
Mercury (Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead (Pb)	ND	mg/kg	0.01	ND	ND	ND
Lithium (Li)	0.6	mg/kg	0.1	ND	ND	ND
Aluminum (Al)	1	mg/kg	0.1	ND	ND	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND	ND	ND
Iron (Fe)	48	mg/kg	5	ND	ND	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND	ND	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND	ND	ND
Copper (Cu)	5	mg/kg	0.25	ND	ND	ND
Zinc (Zn)	5	mg/kg	0.5	ND	ND	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND	ND	ND
Barium (Ba)	1	mg/kg	0.25	ND	ND	ND
Lanthanum (La)	-	mg/kg	0.025	ND	ND	ND
Europium (Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND	ND	ND
Terbium (Tb)	-	mg/kg	0.025	ND	ND	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
<b>Stability</b>						<b>YES</b>

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)



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**FDA 21 CFR 177.1520–Maximum extractable fraction in n-Hexane**

Test Method : With reference to US FDA 21 CFR 177.1520 d(3)(ii).

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>
n-Hexane	2hr(s)	50°C	5.5%(w/w)

<u>Simulant Used</u>	<u>Result of 13</u>	<u>Result of 14</u>	<u>Result of 15</u>	<u>Result of 16</u>
n-Hexane	0.9%(w/w)	0.9%(w/w)	0.7%(w/w)	1.2%(w/w)

<u>Simulant Used</u>	<u>Result of 17</u>	<u>Result of 18</u>	<u>Result of 19</u>	<u>Result of 20</u>
n-Hexane	0.6%(w/w)	1.0%(w/w)	0.6%(w/w)	1.2%(w/w)

<u>Simulant Used</u>	<u>Result of 21</u>	<u>Result of 22</u>	<u>Result of 23</u>	<u>Result of 24</u>
n-Hexane	1.4%(w/w)	1.0%(w/w)	1.0%(w/w)	0.8%(w/w)

Notes :

%w/w = percentage of weight by weight

**FDA 21 CFR 177.1520–Maximum soluble fraction in xylene**

Test Method : With reference to US FDA 21 CFR 177.1520 d(4)(ii).

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 13</u>	<u>Test result of 14</u>	<u>Test result of 15</u>
Soluble fraction in Xylene	30	%(w/w)	0.5	6.9	7.4	6.6

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 16</u>	<u>Test result of 17</u>	<u>Test result of 18</u>
Soluble fraction in Xylene	30	%(w/w)	0.5	6.3	3.8	6

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result of 19</u>	<u>Test result of 20</u>	<u>Test result of 21</u>
Soluble fraction in Xylene	30	%(w/w)	0.5	5.8	6	6.1



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Test Item(s)	Limit	Unit	MDL	Test result of 22	Test result of 23	Test result of 24
Soluble fraction in Xylene	30	%(w/w)	0.5	7.5	6.7	6.5

**Notes :**

- 1.%w/w = percentage of weight by weight
- 2.ND= Not Detected(less than MDL)

**FDA 21 CFR 177.1520–Density at 23°C**

Test Method : With reference to US FDA 21 CFR 177.1520 d(1).

Test Item(s)	Limit	Test result of 13	Test result of 14	Test result of 15
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.898	0.899	0.902

Test Item(s)	Limit	Test result of 16	Test result of 17	Test result of 18
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.900	0.902	0.898

Test Item(s)	Limit	Test result of 19	Test result of 20	Test result of 21
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.903	0.899	0.901

Test Item(s)	Limit	Test result of 22	Test result of 23	Test result of 24
Density at 23°C, g/ cm <sup>3</sup>	0.850-1.000	0.903	0.898	0.908

**FDA 21 CFR 177.2600–Total extractive residues**

Test Method : With reference to US FDA 21 CFR 177.2600.

Simulant Used	Time	Temperature	Max. Permissible Limit
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch <sup>2</sup>
Succeeding Extraction	2.0hr(s)		1mg/inch <sup>2</sup>
n-Hexane	7.0hr(s)		175mg/inch <sup>2</sup>
Succeeding Extraction	2.0hr(s)		4mg/inch <sup>2</sup>



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Simulant Used	Result of 1	Result of 2	Result of 3	Result of 4	Result of 5	Result of 6
Distilled Water	0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
Succeeding Extraction	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
n-Hexane	21.3mg/inch <sup>2</sup>	18.1mg/inch <sup>2</sup>	22.6mg/inch <sup>2</sup>	20.9mg/inch <sup>2</sup>	23.9mg/inch <sup>2</sup>	20.2mg/inch <sup>2</sup>
Succeeding Extraction	2.7mg/inch <sup>2</sup>	3.0mg/inch <sup>2</sup>	2.8mg/inch <sup>2</sup>	2.9mg/inch <sup>2</sup>	3.6mg/inch <sup>2</sup>	3.5mg/inch <sup>2</sup>

Simulant Used	Result of 7	Result of 8	Result of 9	Result of 10	Result of 11	Result of 12
Distilled Water	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
Succeeding Extraction	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>	<0.5mg/inch <sup>2</sup>
n-Hexane	29.1mg/inch <sup>2</sup>	26.8mg/inch <sup>2</sup>	23.7mg/inch <sup>2</sup>	24.1mg/inch <sup>2</sup>	21.6mg/inch <sup>2</sup>	25.0mg/inch <sup>2</sup>
Succeeding Extraction	3.7mg/inch <sup>2</sup>	3.5mg/inch <sup>2</sup>	2.9mg/inch <sup>2</sup>	3.0mg/inch <sup>2</sup>	3.0mg/inch <sup>2</sup>	3.2mg/inch <sup>2</sup>

Notes :

mg/inch<sup>2</sup>= milligram per square inch

Remark: Test condition & simulant were specified by client.

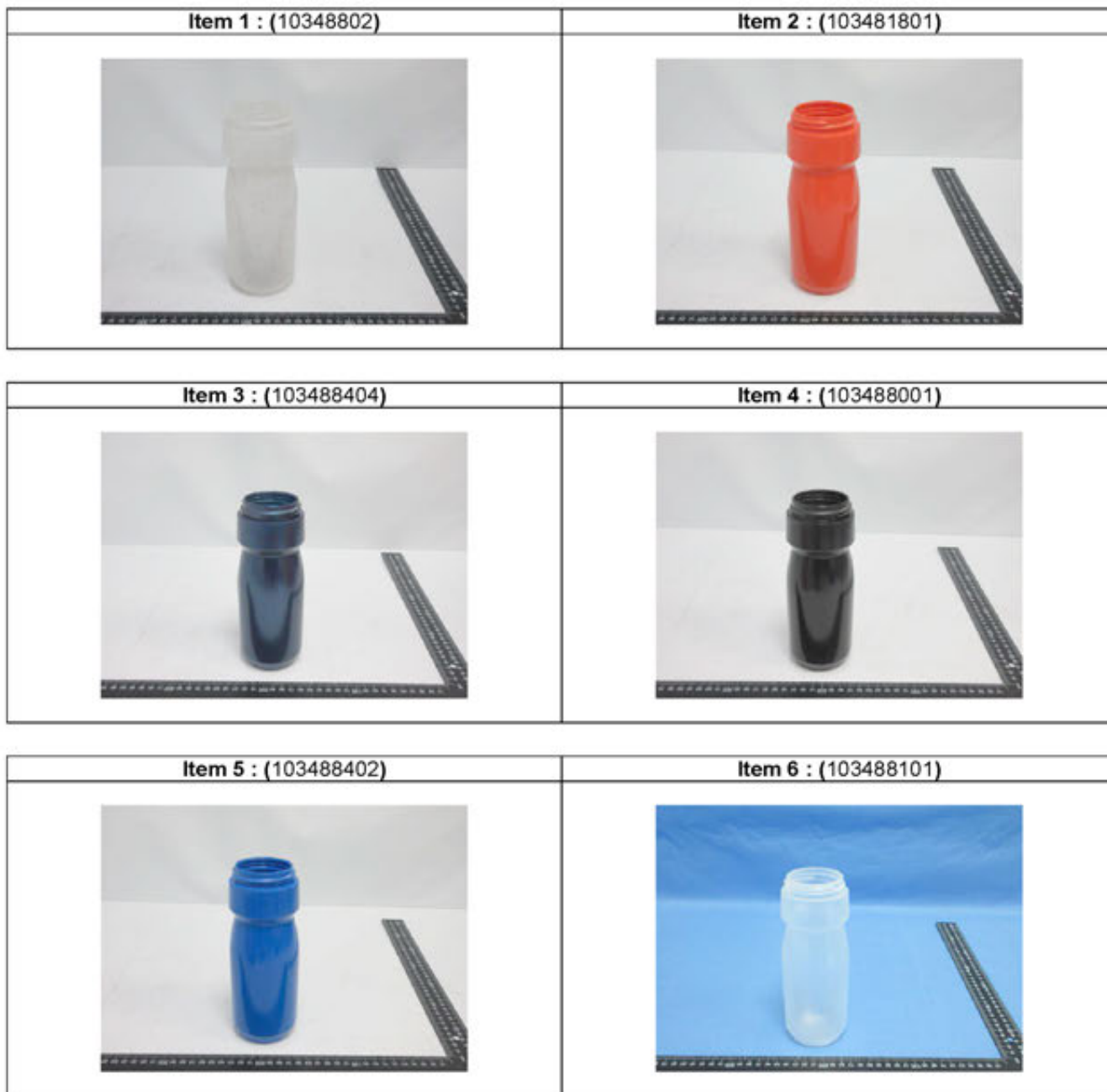


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Item 7 : (103489301)



Item 8 : (103488601)



Item 9 : (103488301)



Item 10 : (103487001)



Item 11 : (103488002)









Item 12 : (103488102)



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<p><b>Item 13 : (10348802-PP)</b></p> 	<p><b>Item 14 : (103481801-PP)</b></p> 
<p><b>Item 15 : (103488404-PP)</b></p> 	<p><b>Item 16 : (103488001-PP)</b></p> 
<p><b>Item 17 : (103488402-PP)</b></p> 	<p><b>Item 18 : (103488101-PP)</b></p> 



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<p><b>Item 19 : (103489301-PP)</b></p> 	<p><b>Item 20 : (103488601-PP)</b></p> 
<p><b>Item 21 : (103488301-PP)</b></p> 	<p><b>Item 22 : (103487001-PP)</b></p> 
<p><b>Item 23 : (103488002-PP)</b></p> 	<p><b>Item 24 : (103488102-PP)</b></p> 

\*\*\*End of Report\*\*\*



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CAMELBAK PRODUCTS LLC  
2000 S. MCDOWELL BLVD, SUITE 200, PETALUMA, CA 94954, USA

Sample Description : SEE ATTACHMENT  
Manufacturer : HAYCO ENTERPRISES (SHENZHEN) LTD.

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*

SGS Ref No. : CAN22-049451  
Sample Receiving Date : Mar 24, 2022  
Test Performing Date : Mar 25, 2022 to Mar 30, 2022  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations (SOR/2016-193) - Section 2: Lead(Pb)	PASS

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Yan Lau  
Authorized Signatory



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Client Reference Information:  
ATTACHMENT:

No.	Type	Part No.	Color	SGS Sample ID	SGS Description
001	Marabu PY Basic inks	PY020	Lemon	CAN22-049451.001	Lemon yellow ink("PY020")
002		PY021	Medium Yellow	CAN22-049451.002	Orange ink("PY021")
003		PY022	Yellow Orange	CAN22-049451.003	Dark orange ink("PY022")
004		PY026	Light Yellow	CAN22-049451.004	Yellow ink("PY026")
005		PY031	Scarlet Red	CAN22-049451.005	Dark red ink("PY031")
006		PY032	Carmine Red	CAN22-049451.006	Mauve ink("PY032")
007		PY033	Magenta	CAN22-049451.007	Fuchsia ink("PY033")
008		PY035	Bright Red	CAN22-049451.008	Red ink("PY035")
009		PY036	Vermilion	CAN22-049451.009	Vermilion ink("PY036")
010		PY037	Purple Red	CAN22-049451.010	Purple ink("PY037")
011		PY055	Ultramarine Blue	CAN22-049451.011	Ultramarine blue ink("PY055")
012		PY056	Turquoise Blue	CAN22-049451.012	Cyan ink("PY056")
013		PY057	Brilliant Blue	CAN22-049451.013	Blue ink("PY057")
014		PY058	Dark Blue	CAN22-049451.014	Dark blue ink("PY058")
015		PY059	Royal Blue	CAN22-049451.015	Royal blue ink("PY059")
016		PY067	Grass Green	CAN22-049451.016	Green ink("PY067")
017		PY068	Brilliant Green	CAN22-049451.017	Dark green ink("PY068")
018		PY070(7001-9900355-02)	White	CAN22-049451.018	White ink("PY070")
019		PY073(7001-9900352-02)	Black	CAN22-049451.019	Black ink("PY073")
020		PY910(HPX048800000)	Overprint Varnish	CAN22-049451.020	Translucent ink("PY910")
021	Norcot e PPC UV ink	ACC-1002(7001-9900279-02)	White	CAN22-049451.021	White ink("7001-9900279-02")
022	Marabu PY Auxiliar ies	7002-9900070-01	9027 Hardener	CAN22-049451.022	Transparent liquid("7002-9900070-01")
023		7002-9900011-00	SV9 Thinner	CAN22-049451.023	Transparent liquid("7002-9900011-00")
024		7002-9900012-00	ST1 Extender	CAN22-049451.024	Beige paste("7002-9900012-00")



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025		HTX010500000GP (7999-9900055-00)	Hardener, Marabu ,H1	CAN22-049451.025	Transparent liquid("7999-9900055-00 ")
026	Norcote PPC Thinner	HPX047700000 (7002-9900051-01)	PPC-070 Thinner	CAN22-049451.026	Beige transparent liquid("7002-9900051-01 ")



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Test Results :

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations (SOR/2016-193) - Lead in surface coating material**

Test Method : With reference to Health Canada, Product Safety Laboratory, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.2:2017 and C-07:2019. Analysis was performed by ICP-OES, AAS & Mercury Analyzer.

Test Item(s)	Limit	Unit	MDL	001	002	003
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007	008	009
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	010	011	012
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	013	014	015
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	016	017	018
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND



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Test Item(s)	Limit	Unit	MDL	019	020	021
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

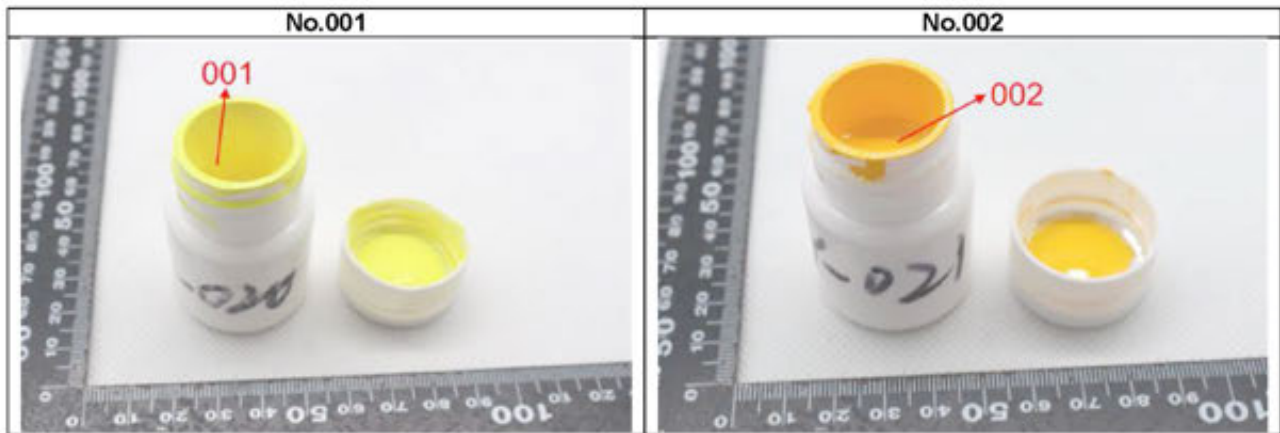
Test Item(s)	Limit	Unit	MDL	022	023	024
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	025	026
Total Lead (Pb)	90	mg/kg	20	ND	ND

**Notes:**

- (1) The result(s) of 001-022, 024-026 shown are of the total weight of dried sample.
- (2) The result(s) of 023 shown are of the total weight of wet sample, due to the sample(s) could not be dried by Lab's equipment.

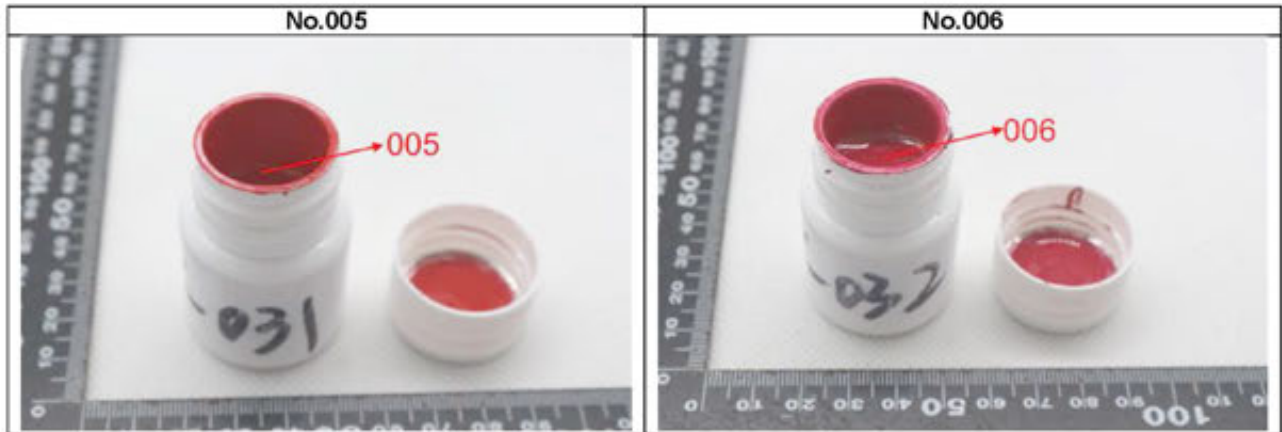
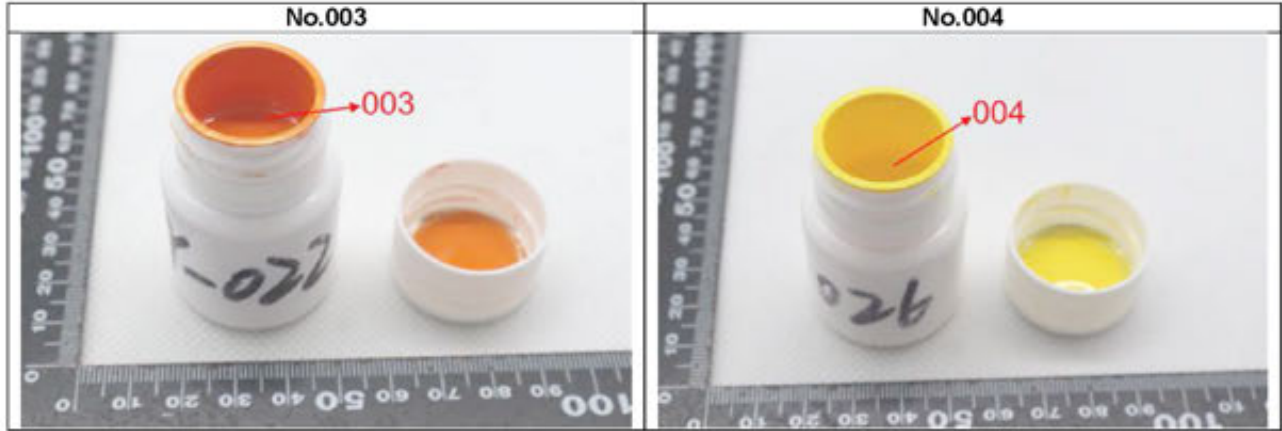
**Sample photo:**



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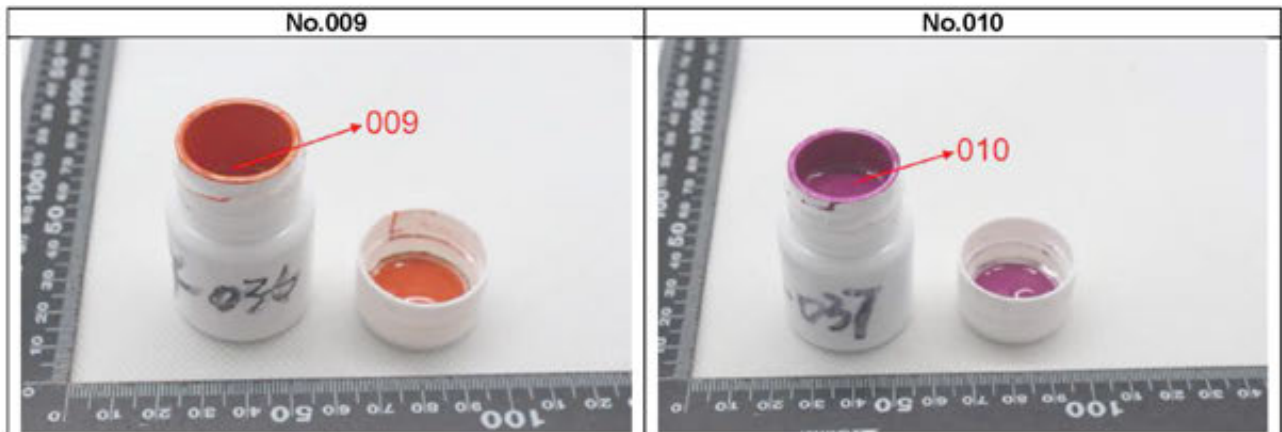
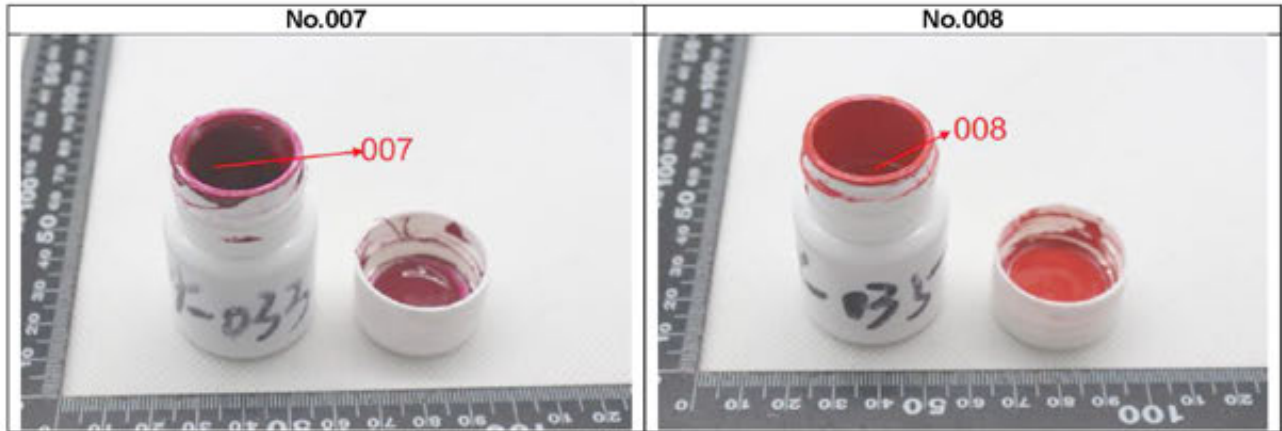


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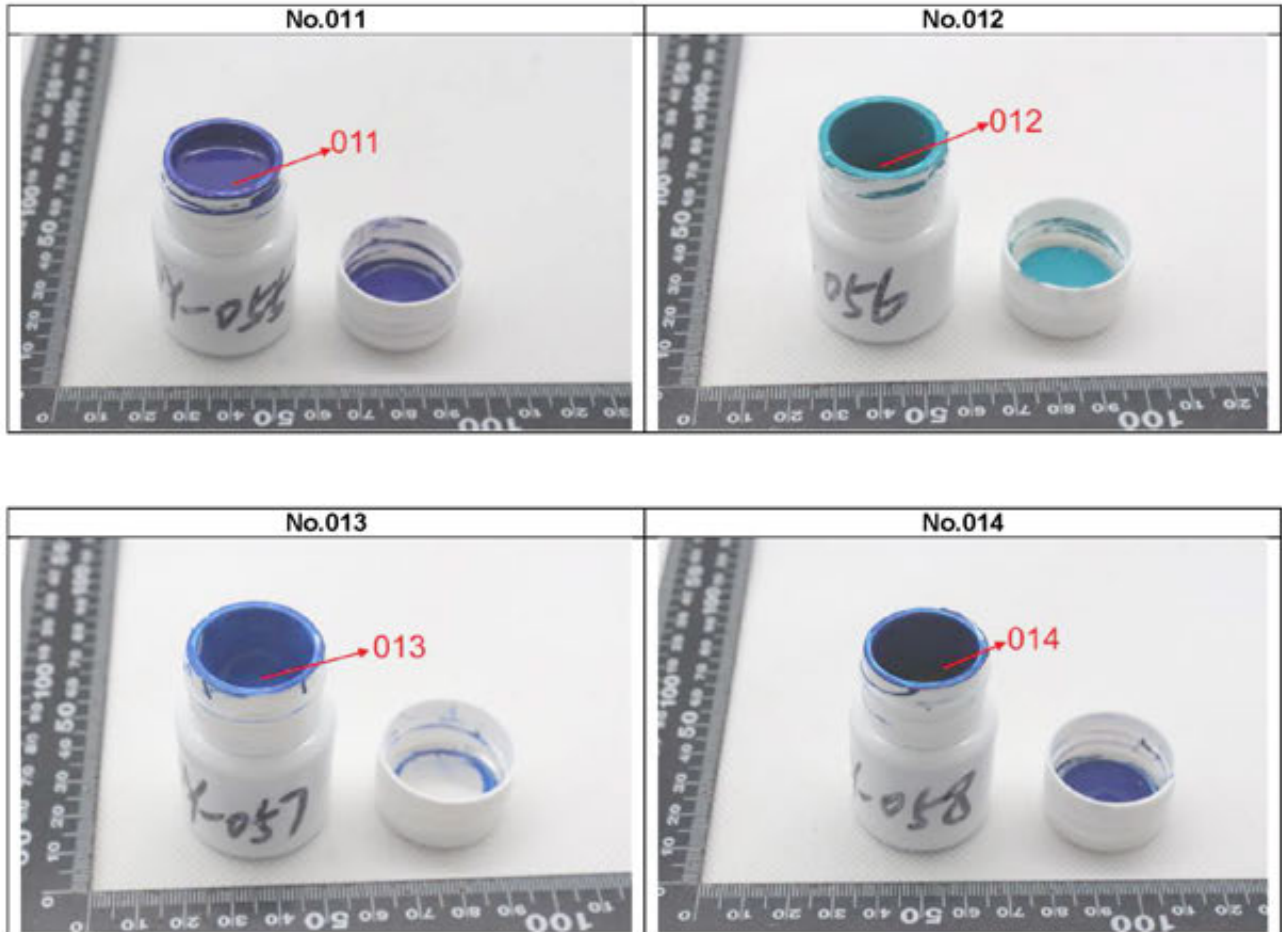


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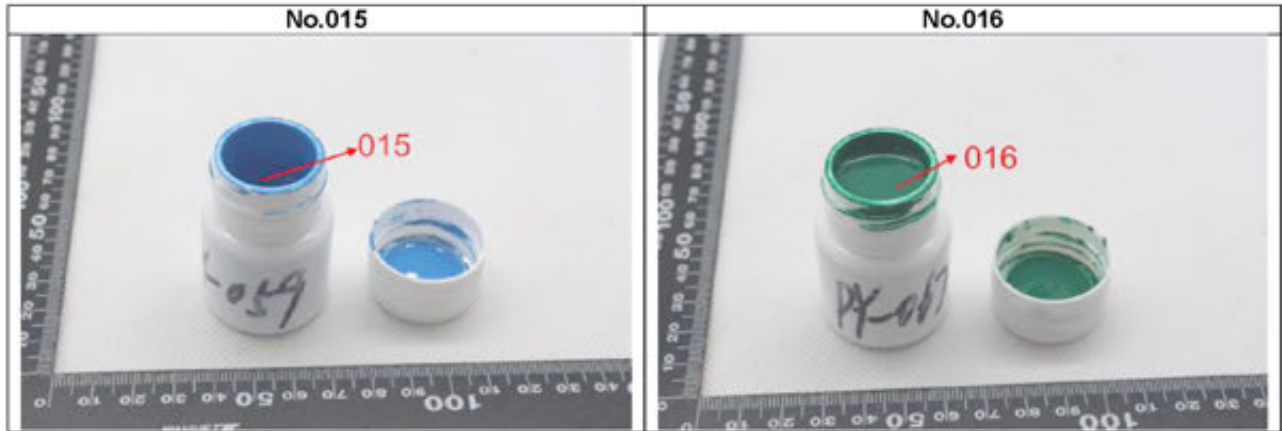
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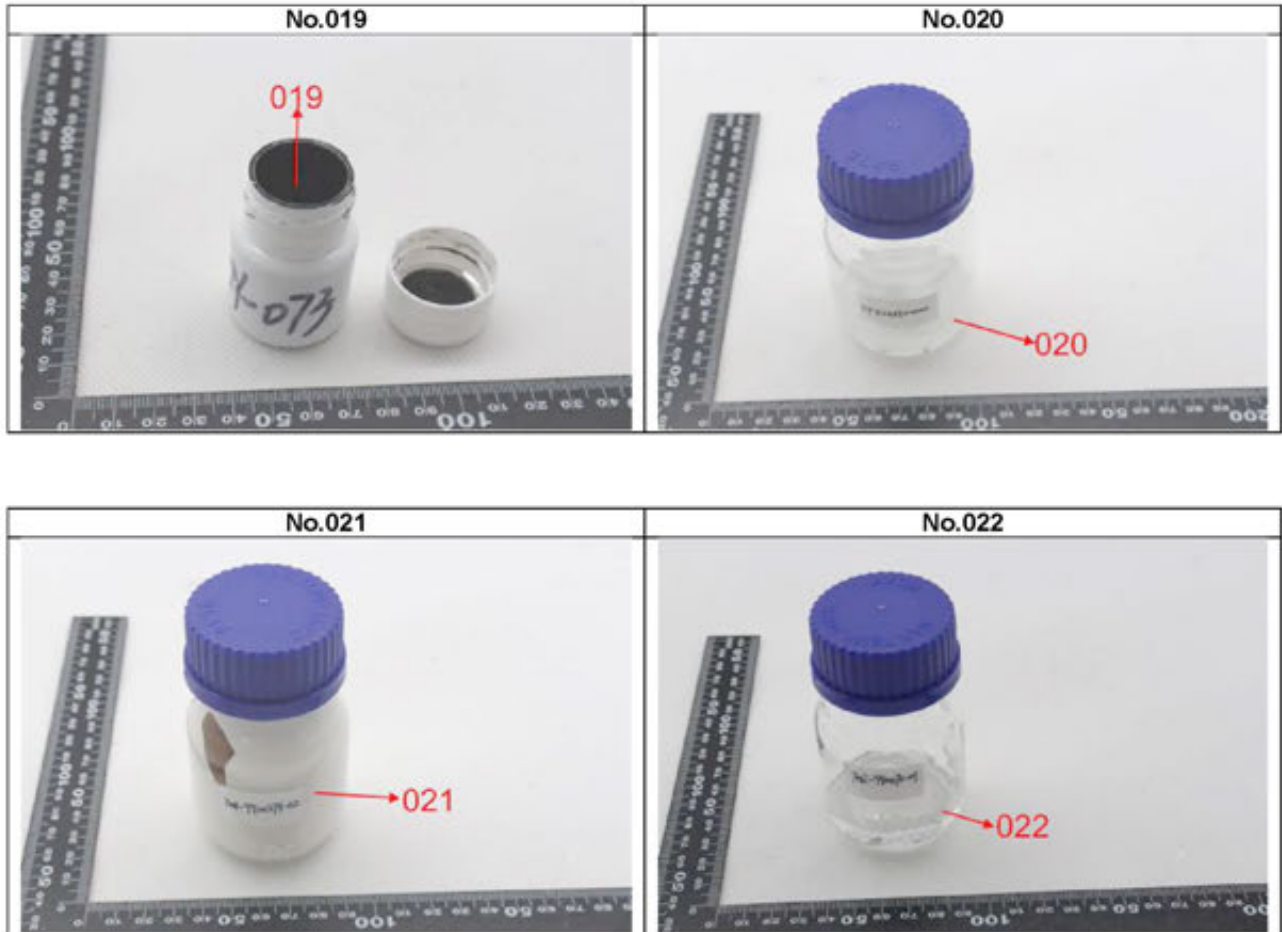
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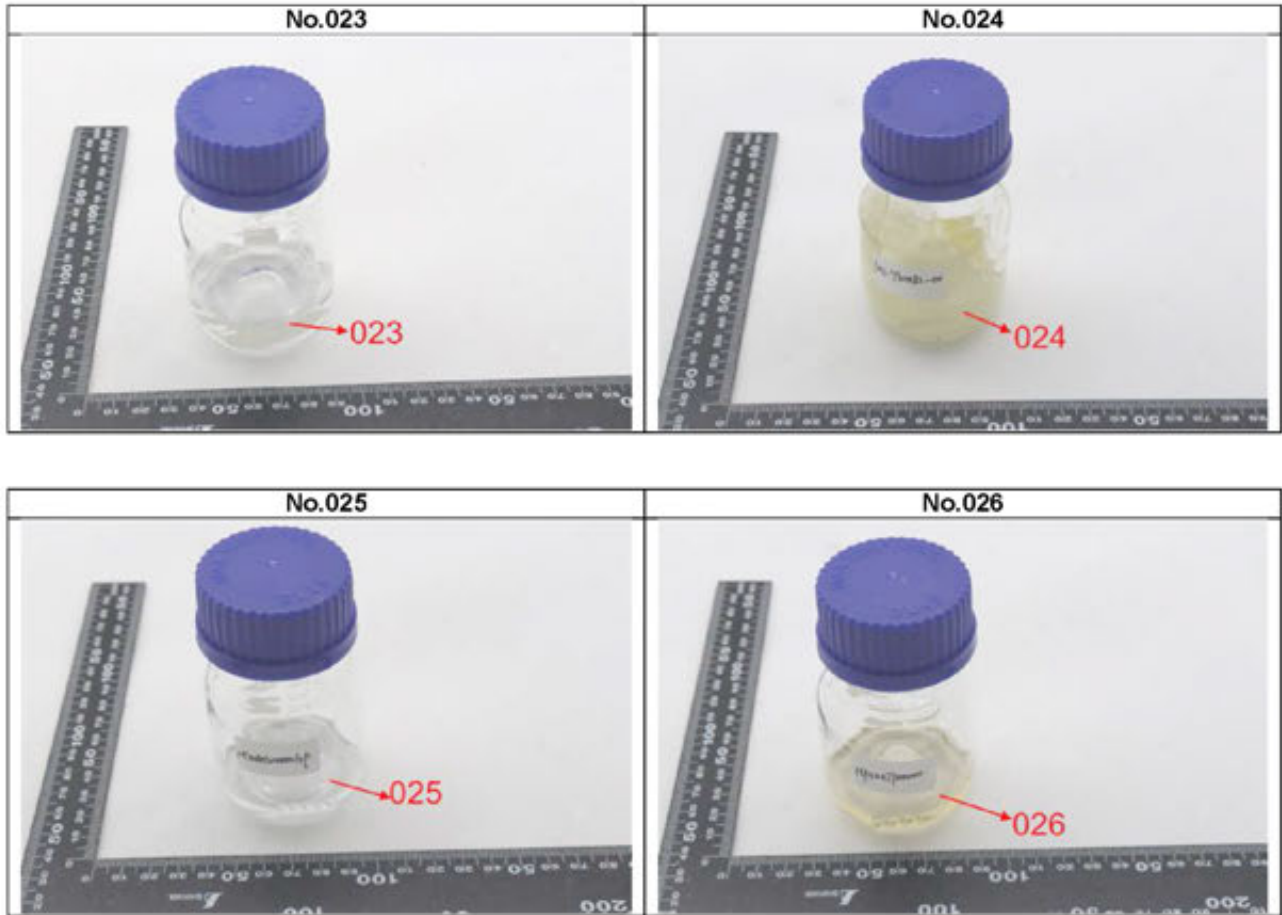
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Date: Apr 06, 2022

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CAMELBAK PRODUCTS LLC  
2000 S. MCDOWELL BLVD, SUITE 200, PETALUMA, CA 94954, USA

Sample Description : SEE ATTACHMENT  
Manufacturer : HAYCO ENTERPRISES (SHENZHEN) LTD.

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : CAN22-052553  
Sample Receiving Date : Mar 28, 2022  
Test Performing Date : Mar 28, 2022 to Apr 01, 2022  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) :

Test Requested	Result
Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead Regulations (SOR/2018-83) - Lead content	PASS

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Yan Lau  
Authorized Signatory



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Client Reference Information:  
ATTACHMENT:

No.	Part No.	Description	part type	Hayco Number	SGS Sample ID	Description
001	103517101	Bite Valve, eddy+, Clear	bite valve, Eddy+	RPK4249C0001GP	CAN22-052553.001	Translucent soft plastic(bite valve, "001")
002	102918001	Cap, Chute Mag, Black/Black-Base/Hard	cap, Chute	RML0432K0004GP	CAN22-052553.002	Black plastic(base, cap)("002")
003	102918001	Cap, Chute Mag, Black/Black-Overmold/soft	cap, Chute	RML0432K0004GP	CAN22-052553.003	Black soft plastic(overmold, cap)("003")
004	103510001	Base Cap, eddy+, Black/Black	cap, Eddy+	RMK0440K0102GP	CAN22-052553.004	Black plastic(base cap, "004")
005	105232001	cap, Eddy+Kids, Black/Black	cap, Kids	RMK0465K0102GP	CAN22-052553.005	Black plastic(cap, "005")
006	105232401	cap, Eddy+Kids, Blue (2935c)/Blue (2935c) cap-Base/Hard	cap, Kids	RMK0465LL102GP	CAN22-052553.006	Blue plastic(base, cap)("006")
007	105232401	cap, Eddy+Kids, Blue (2935c)/Blue (2935c) cap-Overmold/soft	cap, Kids	RMK0465LL102GP	CAN22-052553.007	Blue soft plastic(overmold, cap)("007")
008	106850001	Main Cap Welded Assy, eddy+ Kids LS, Black	cap, Lifestraw	RPP4671K0200GP	CAN22-052553.008	Black plastic(main cap welded assy, "008")
009	102461001	Tether, Chute Mag, Black	Chute Mag tether	RPX4048K0002GP	CAN22-052553.009	Black plastic(tether, "009")
010	102461403	Tether, Chute Mag, Blue (2945c)	Chute Mag tether	RPX4048L9002GP	CAN22-052553.010	Dark blue plastic(tether, "010")
011	102461405	Tether, Chute Mag, True Blue (2925c)	Chute Mag tether	RPX4048Z1002GP	CAN22-052553.011	Blue plastic(tether, "011")
012	102461502	Tether, Chute Mag, Lupine (2613c)	Chute Mag tether	RPX4048PL002GP	CAN22-052553.012	Purple plastic(tether, "012")
013	102461602	Tether, Chute Mag, Cardinal (201c)	Chute Mag tether	RPX4048RM002GP	CAN22-052553.013	Dark red plastic(tether, "014")
014	102461801	Tether, Chute Mag, Lava (7579c)	Chute Mag tether	RPX4048NN002GP	CAN22-052553.014	Orange plastic(tether, "014")
015	103513001	Handle, eddy+, Black/Black	Eddy+ handle	RMK0441K0103GP	CAN22-052553.015	Black plastic(handle, "015")



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No.	Part No.	Description	part type	Hayco Number	SGS Sample ID	Description
016	103516001	Stem, eddy+, Black	Eddy+ stem	RPP4247K0002GP	CAN22-052553.016	Black plastic(stem, "016")
017	103516401	Stem, eddy+, Oxford (2945c)	Eddy+ stem	RPP4247L9002GP	CAN22-052553.017	Dark blue plastic(stem, "017")
018	103516402	Stem, eddy+, True Blue (2925c)	Eddy+ stem	RPP4247Z1002GP	CAN22-052553.018	Blue plastic(stem, "018")
019	103516501	Stem, eddy+, Lupine (2613c)	Eddy+ stem	RPP4247PL002GP	CAN22-052553.019	Purple plastic(stem, "019")
020	103516602	Stem, eddy+, Cardinal (201c)	Eddy+ stem	RPP4247RM002GP	CAN22-052553.020	Dark red plastic(stem, "020")
021	103516801	Stem, eddy+, Lava (1655c)	Eddy+ stem	RPP4247NN002GP	CAN22-052553.021	Orange plastic(stem, "021")
022	104411001	Gasket, Main Cap, Swig, Dk.Grey (RAL7012)	gasket	RPK4199E4101GP	CAN22-052553.022	Dark celadon soft plastic(gasket, "022")
023	105546101	Straw, eddy+ Kids SW .4L, natural	Kids straw	RTL014600001GP	CAN22-052553.023	Translucent soft plastic(straw, "023")
024	105235001	thumb tab, Eddy+Kids, Black	Kids thumb tab	RPX4355K0101GP	CAN22-052553.024	Black plastic(thumb tab, "024")
025	105235401	thumb tab, Eddy+Kids, Blue (2935c)	Kids thumb tab	RPX4355LL101GP	CAN22-052553.025	Dark blue plastic(thumb tab, "025")
026	103540001	Vent Valve, eddy+, Lt.Grey	Kids vent valve	RPK4175UD000GP	CAN22-052553.026	Gray soft plastic(Vent Valve, "026")
027	103494001	Cap, Pod 3.0, Black	Podium cap	RPX4133K0000GP	CAN22-052553.027	Black plastic(cap, "027")
028	103494101	Cap, Pod 3.0, White	Podium cap	RPX4133W0000GP	CAN22-052553.028	White plastic(cap, "028")
029	103494406	Cap, Pod 3.0, Blue (2935c)	Podium cap	RPX4133LL000GP	CAN22-052553.029	Blue plastic(cap, "029")
030	103494604	Cap, Pod 3.0, Red (200c)	Podium cap	RPX4133RX000GP	CAN22-052553.030	Red plastic(cap, "030")



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No.	Part No.	Description	part type	Hayco Number	SGS Sample ID	Description
031	103472101	Nozzle, Pod 3.0, Clear	Podium cap part	RPK4137C0000GP	CAN22-052553.031	Translucent soft plastic(nozzle, "031")
032	103475001	Lockout O-Ring, Pod 3.0, Black	Podium cap part	RPK4171K0000GP	CAN22-052553.032	Black soft plastic(lockout O-ring, "032")
033	103492002	Keep Cap, Pod 3.0, Lt.Grey (CG 7c)	Podium cap part	RPK4134E4000GP	CAN22-052553.033	Gray translucent soft plastic(keep cap, "033")
034	103946101	Suresnap V2, Pod 3.0, Natural-Retaining ring(PP)	Podium cap part	RPX4313C0001GP	CAN22-052553.034	White plastic(retaining ring, suresnap)("034")
035	103946101	Suresnap V2, Pod 3.0, Natural-V2 LMS valve(silicone rubber)	Podium cap part	RPX4313C0001GP	CAN22-052553.035	Translucent soft plastic( LMS valve, suresnap)("035")
036	105226001	Support Ring, Pod 3.0, Lt. Grey (431c)	Podium cap part	RPD4324UT000GP	CAN22-052553.036	Dark gray plastic(support ring, "036")
037	106361002	Lockout, HDPE, Pod 3.0, Silver (877c)	Podium lockout	RPP4135S0000GP	CAN22-052553.037	Gray plastic(lockout, "037")
038	103486101	Outer Vessel, Pod 3.0 Chill 21oz, Clear	Podium vessel	RPX4149C0000GP	CAN22-052553.038	Translucent plastic(outer vessel, "038")
039	103487001	Inner Vessel, Pod 3.0 Chill 21oz, Silver	Podium vessel	RPX4148S1000GP	CAN22-052553.039	Gray plastic(inner vessel, "039")
040	103489001	Vessel, Pod 3.0, 21oz, Black	Podium vessel	RPX4146K0000GP	CAN22-052553.040	Black plastic(vessel, "040")
041	103489002	Vessel, Pod 3.0, 21oz, Smoke	Podium vessel	RPX4146EG000GP	CAN22-052553.041	Gray translucent plastic(vessel, "041")
042	103489101	Vessel, Pod 3.0, 21oz, Clear	Podium vessel	RPX4146C0000GP	CAN22-052553.042	Translucent plastic(vessel, "042")
043	103489102	Vessel, Pod 3.0, 21oz, White	Podium vessel	RPX4146W0000GP	CAN22-052553.043	White plastic(vessel, "043")
044	103489401	Vessel, Pod 3.0, 21oz, Blue (2935c)	Podium vessel	RPX4146LL000GP	CAN22-052553.044	Blue plastic(vessel, "044")
045	103489601	Vessel, Pod 3.0, 21oz, Red (200c)	Podium vessel	RPX4146RX200GP	CAN22-052553.045	Red plastic(vessel, "045")



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No.	Part No.	Description	part type	Hayco Number	SGS Sample ID	Description
046	106619501	bottle, Tritan Rnw, .75L/25oz, Purple (2613c)/Lupine (Acai)	Tritan vessel	RPC4557PV001SGP	CAN22-052553.046	Purple transparent plastic(bottle, "046")
047	106619602	bottle, Tritan Rnw, .75L/25oz, Red (T505-1-2)/Cardinal	Tritan vessel	RPC4557RM001SGP	CAN22-052553.047	Red transparent plastic(bottle, "047")
048	106619801	bottle, Tritan Rnw, .75L/25oz, Orange (1655c)/Lava	Tritan vessel	RPC4557NH001SGP	CAN22-052553.048	Orange transparent plastic(bottle, "048")
049	106616101	bottle, Tritan Rnw, .4L/14oz, Clear Tritan vessel	Tritan vessel	RPC4308C0101SGP	CAN22-052553.049	Transparent plastic(bottle, "049")
050	106616401	bottle, Tritan Rnw, .4L/14oz, Blue (2925c)/True Blue	Tritan vessel	RPC4308Z1101SGP	CAN22-052553.050	Blue transparent plastic(bottle, "050")
051	106617001	bottle, Tritan Rnw, .6L/20oz, Dk. Grey (T705-1-3)/Charcoal	Tritan vessel	RPC3893UR001SGP	CAN22-052553.051	Gray transparent plastic(bottle, "051")
052	106617402	bottle, Tritan Rnw, .6L/20oz, Dk. Blue (7461C)/Oxford	Tritan vessel	RPC3893TV001SGP	CAN22-052553.052	Blue transparent plastic(bottle, "052")



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Test Results :

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**Canada Consumer Product Safety Act(S.C. 2010, c. 21) , Consumer Products Containing Lead Regulations (SOR/2018-83) – Lead content**

Test Method : with reference to Health Canada, Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.3:2017, analysis was performed by AAS and ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003	004	005	006
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007	008	009	010	011	012
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	013	014	015	016	017	018
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	019	020	021	022	023	024
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	025	026	027	028	029	030
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND



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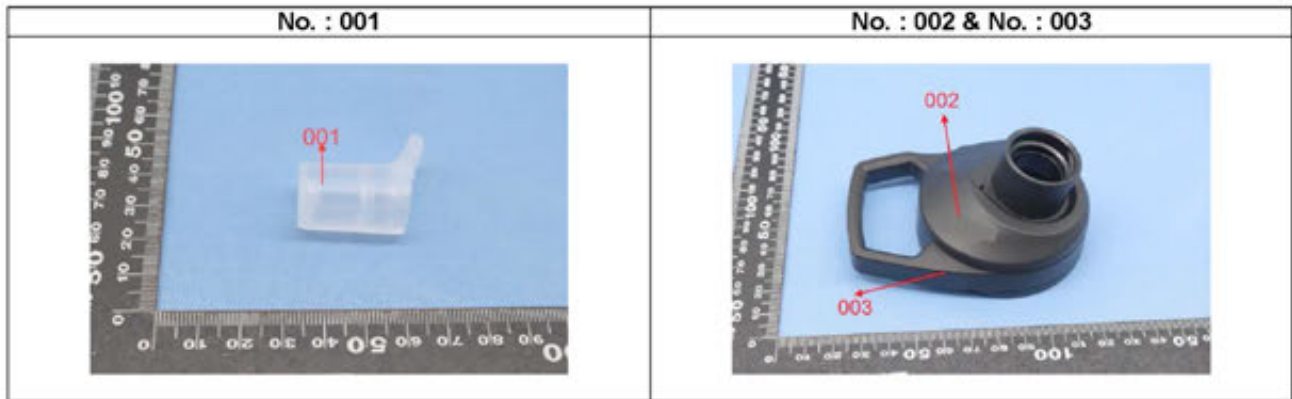
Test Item(s)	Limit	Unit	MDL	031	032	033	034	035	036
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	037	038	039	040	041	042
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	043	044	045	046	047	048
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	049	050	051	052
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND	ND

Sample photo:

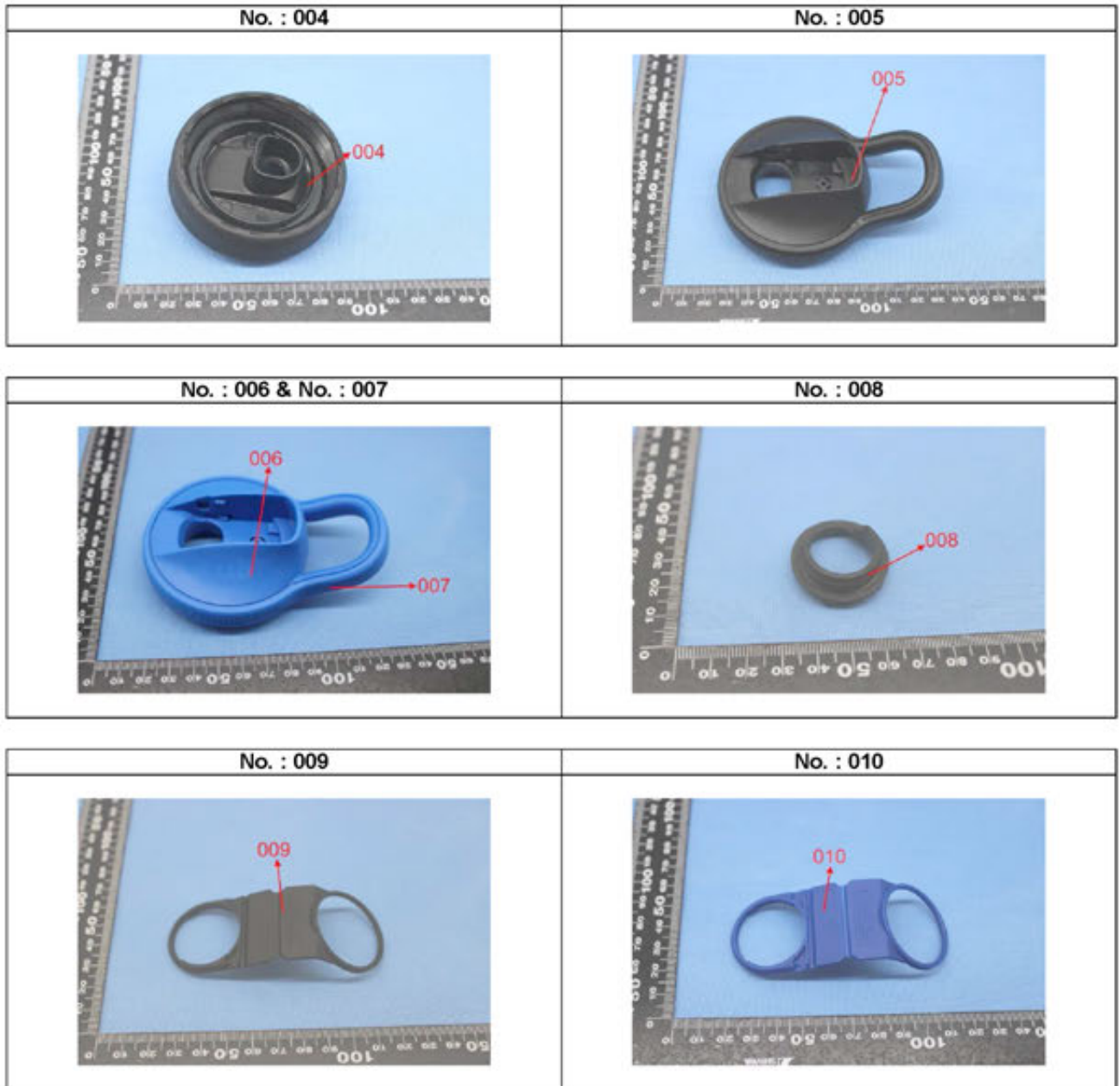


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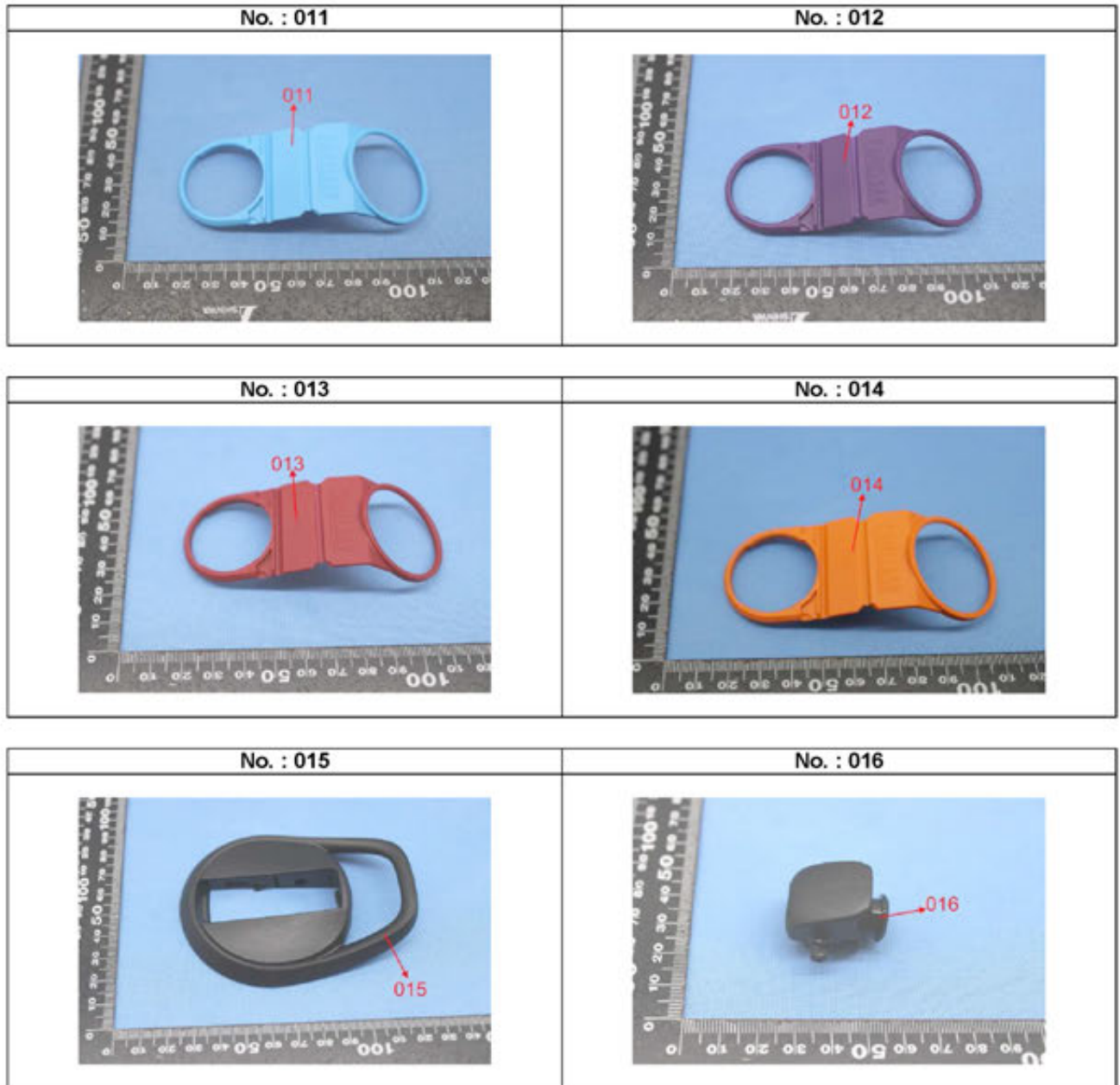


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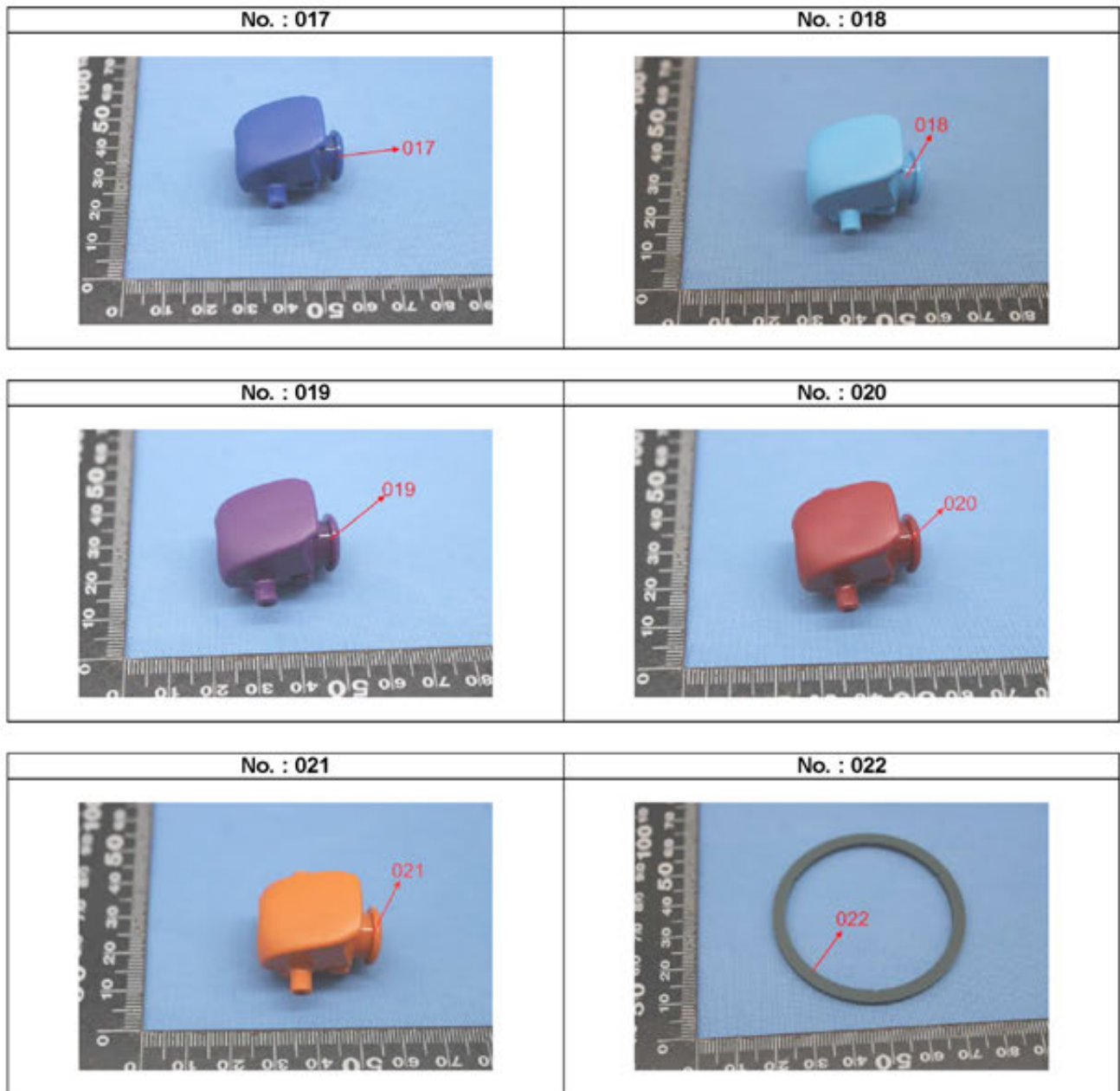


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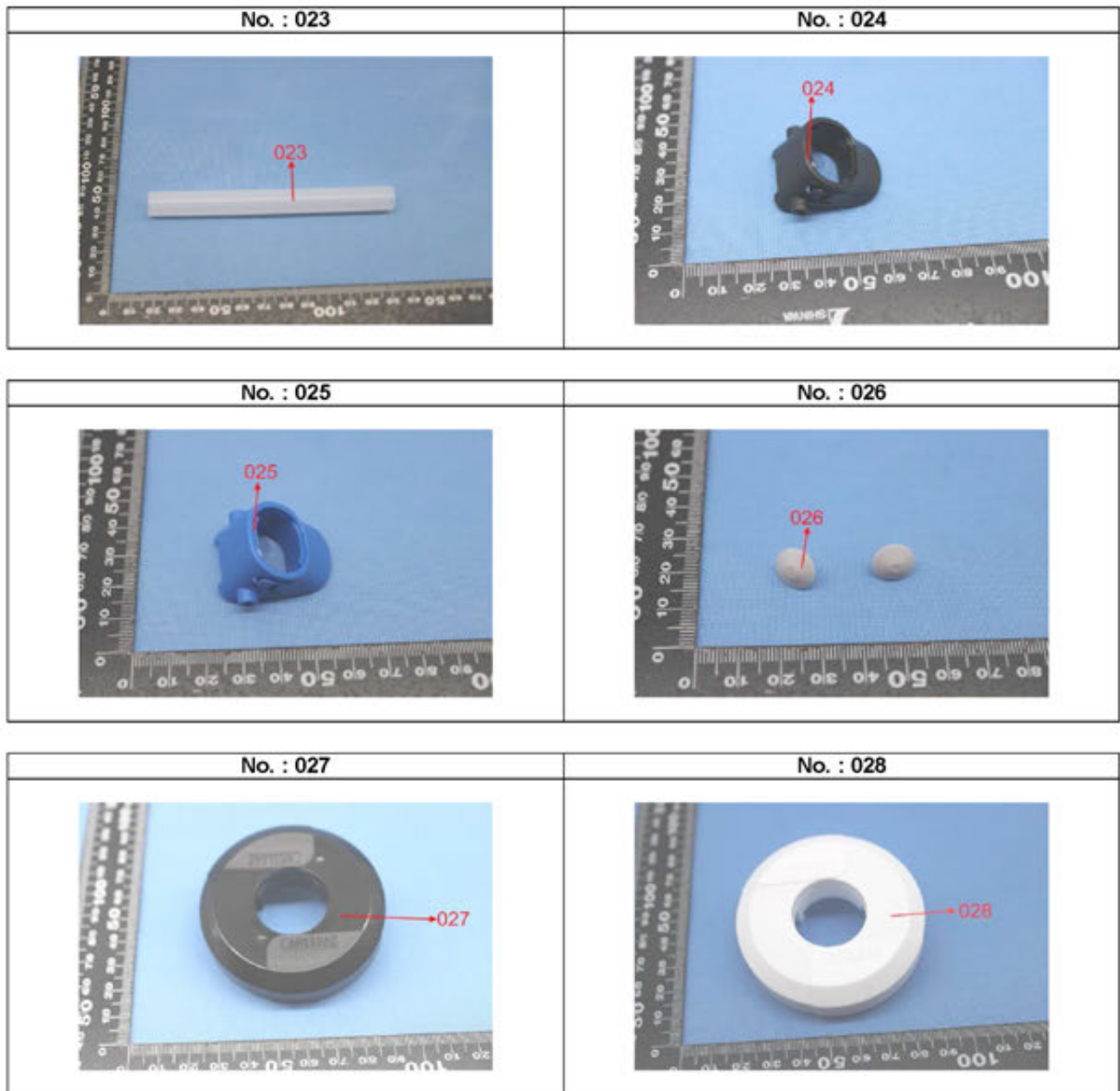
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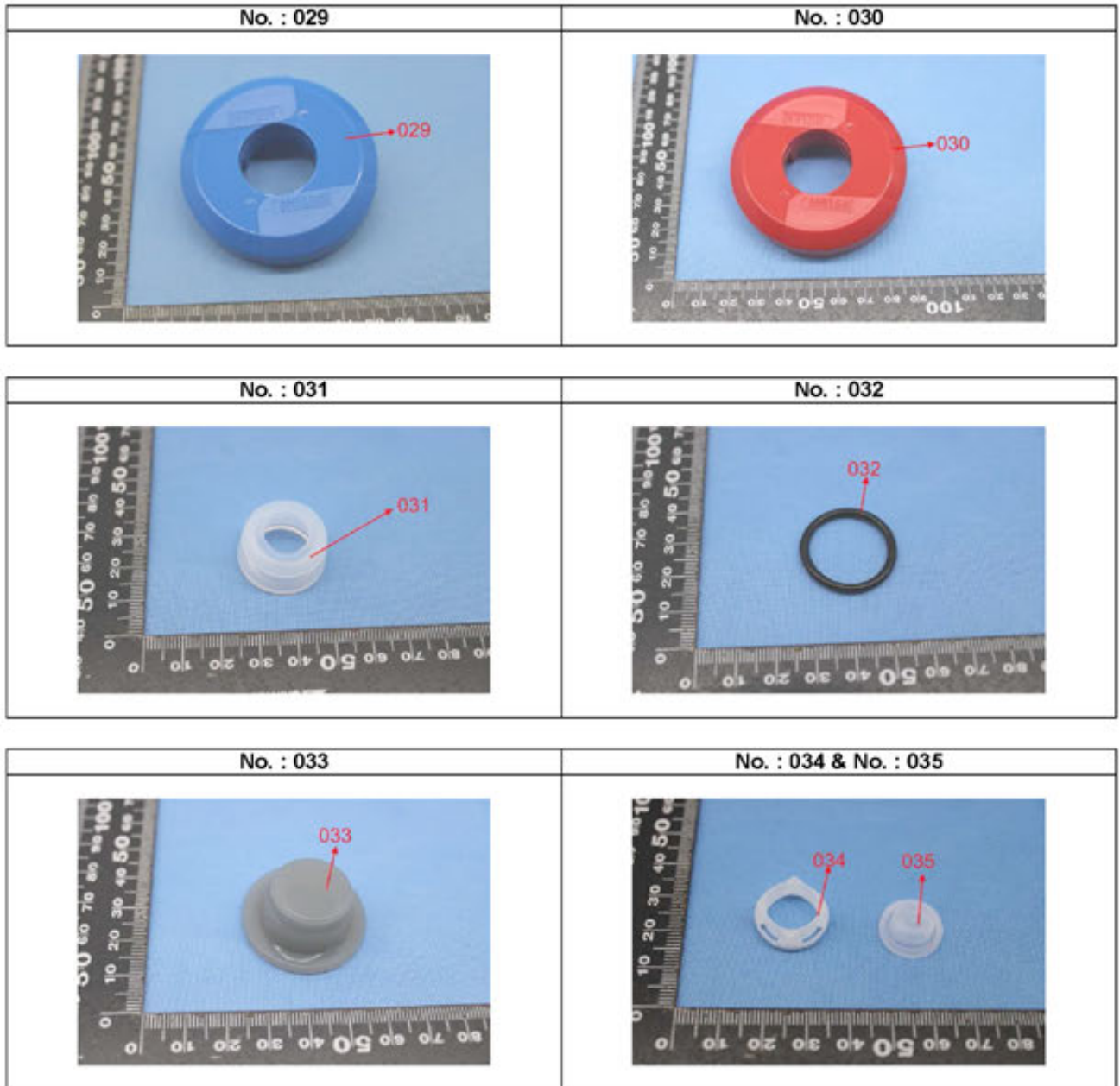
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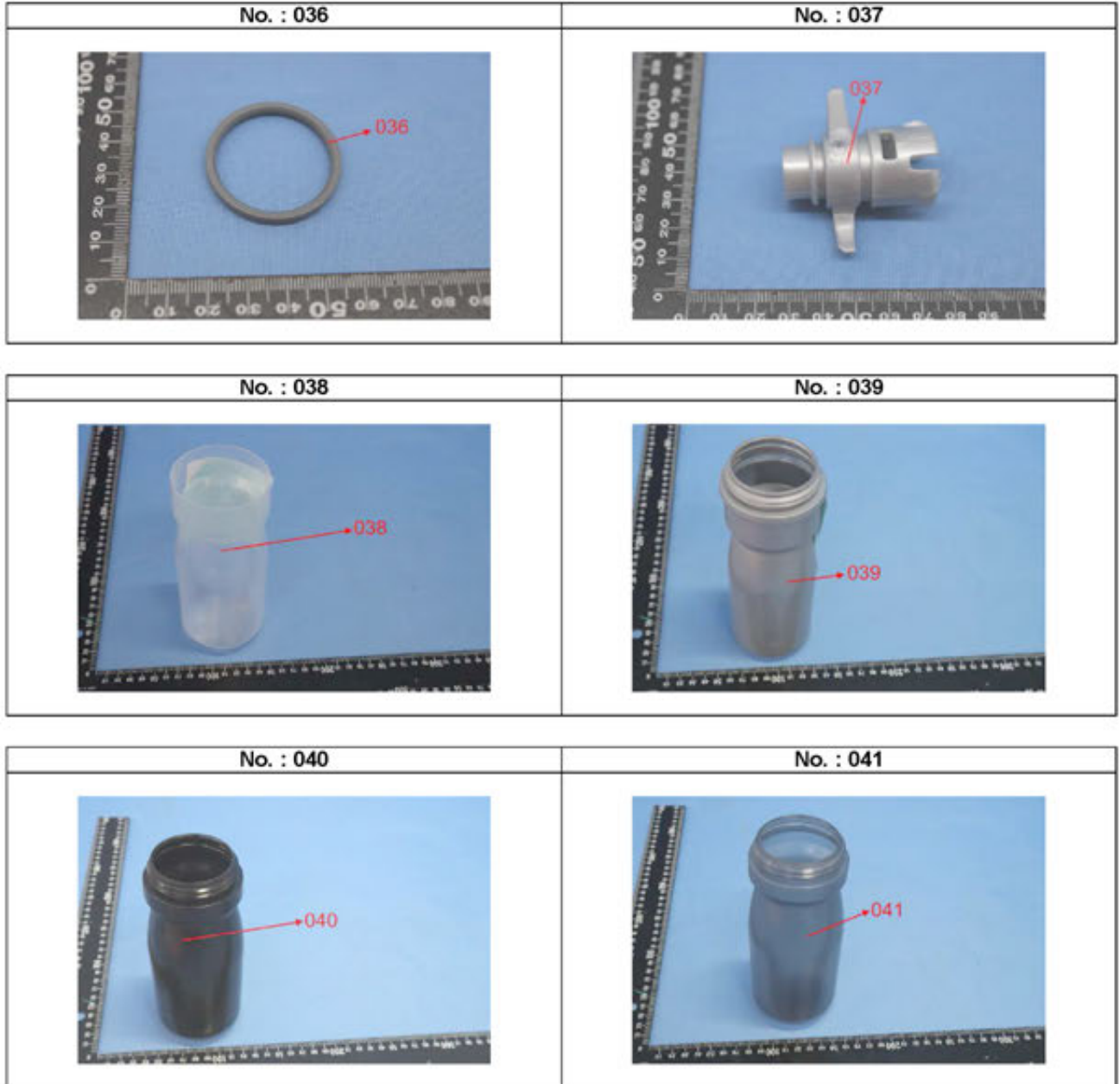


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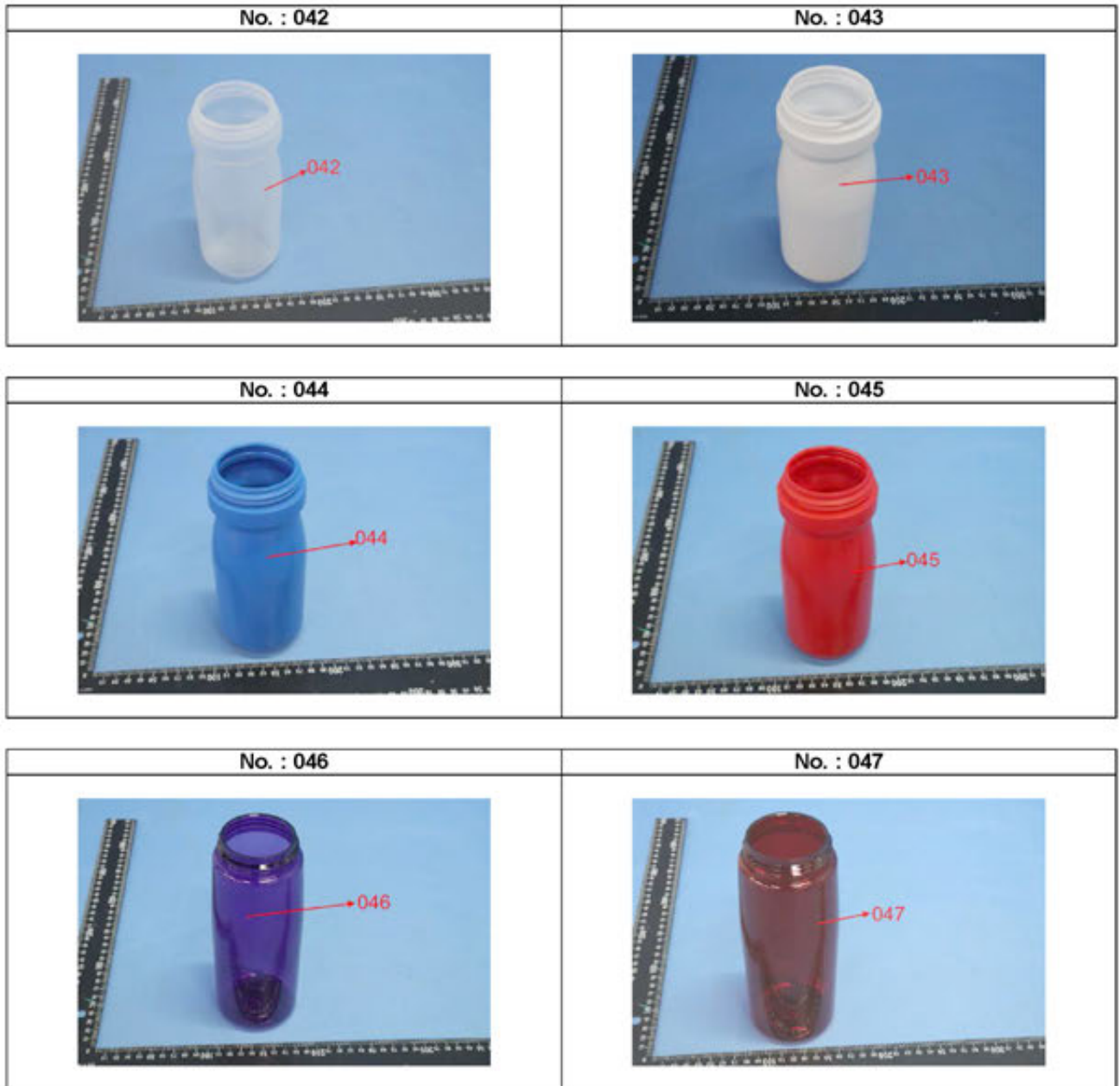


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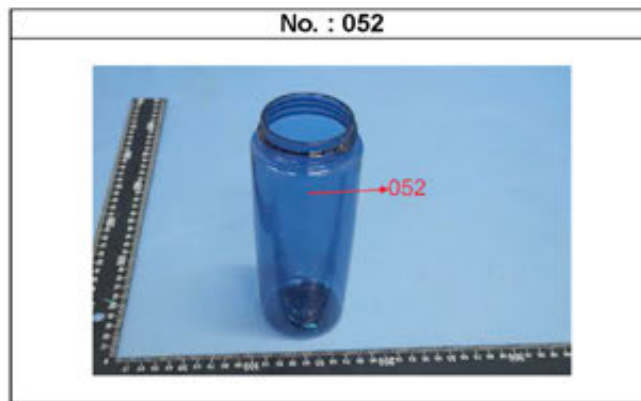
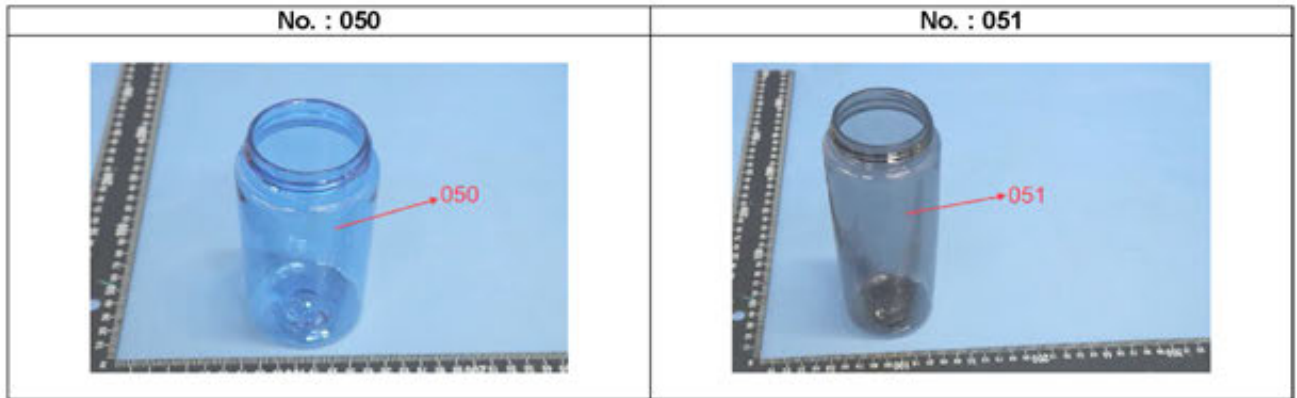
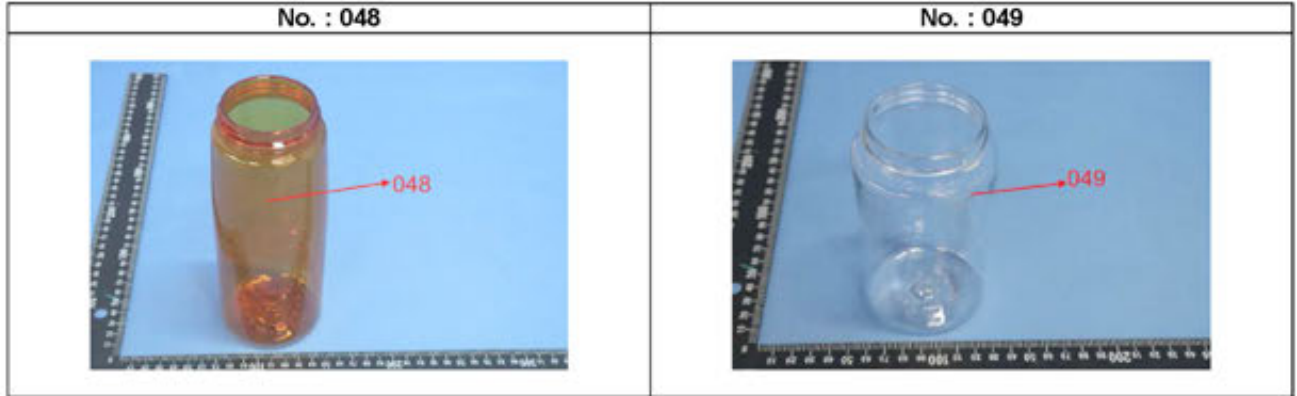
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