



中国认可
国际互认
检测
TESTING
CNASL5820

Report No.: RTS181212K1680FDBG1

Date : 2019-01-04

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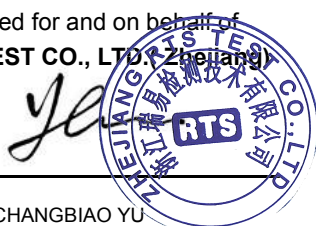
TEST REPORT

Test information

Applicant	: Ningbo Cstar Imp&Exp Co.,Ltd.
Address	: Floor 4,Building E,No. 655-90,Qiming Road,Yinzhou Investment &Innovation Center,Ningbo.
Sample Name	: 25oz Cascade Tritan™ Bottle/32OZ Robust Tritan Bottle.
Style #	: CD163041/CD189046.
Country of origin	: China.
Export to	: Not provided.
Buyer	: Not provided.
Receiving Date	: December 12, 2018.
Test period	: December 12, 2018.~January 04, 2019.
Amended date	: December 27, 2018.
Test Requested	: Tests requested in accordance to client requirement.

<u>TEST ITEMS</u>	<u>CONCLUSION</u>
Total Lead(Pb) in Children's Product – CPSIA Section 101	PASS
Cadmium(Cd) content test – Client's requirement	PASS
Phthalates Content test – CPSC 16 CFR 1307 & CP65 A.B.1108	PASS
Bis-phenol-A(BPA) content test – Client's requirement	PASS
Determination of Amount of Net Chloroform Soluble Extractives – FDA 21 CFR 177.1210(Closure with Sealing Gaskets)	PASS
Soluble fraction in Xylene – FDA 21 CFR 177.1520	PASS
Extractable fraction in n-hexane – FDA 21 CFR 177.1520	PASS
Density at 23°C – FDA 21 CFR 177.1520	PASS
Melting point – FDA 21 CFR 177.1520	PASS
Determination of Amount of Net Chloroform Soluble Extractives – FDA 21 CFR 177.2420	PASS

Signed for and on behalf of
RTS TEST CO., LTD. (Zhejiang)



CHANGBIAO YU

Approved signatory

Zhejiang RTS Test Co., LTD.

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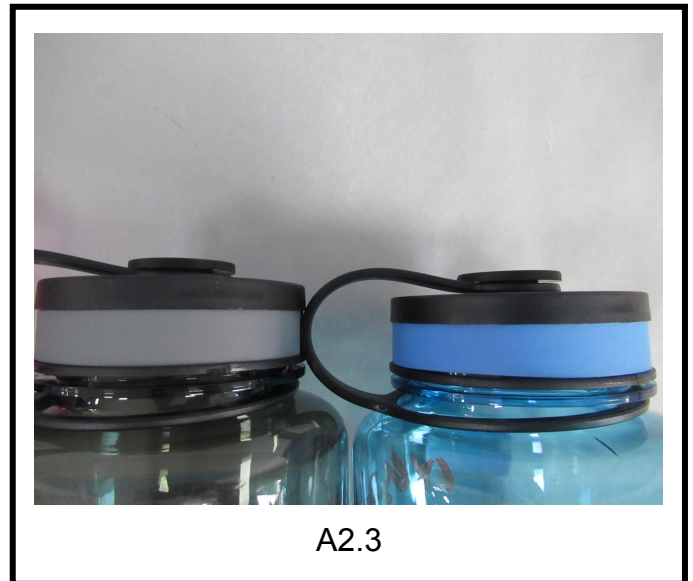
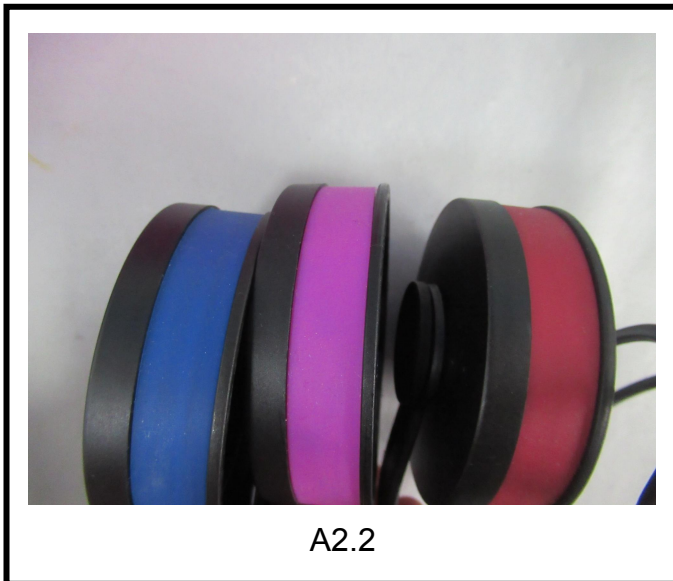
<http://www.zj-rt.com>

浙江省义乌市稠江街道英才创业园B区7幢2-4层,
Choujiang Street, Yiwu, Zhejiang.

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Sample image:



Sample image:

Sample image:



Sample image:





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Test result:

A. Total Lead in Substrate Materials: (Unit: mg/kg)

Section 101 of the Consumer Product Safety Improvement Act of 2008 (CPSIA) (pdf) (Public Law 110-314), as modified by H.R. 2715 (Public Law 112-28, August 12, 2011) and in section 2(q)(1) of the Federal Hazardous Substances Act (pdf), 15 U.S.C. § 1261(q)(1) (FHSA).

Test method:

Metal - CPSC-CH-E1001.08.3., Nonmetal - CPSC-CH-E1002.08.3., Was analyzed by flame atomic absorption spectrometry (AAS) or Inductively coupled plasma spectrometer (ICP-OES).

Test Number	Item/ component description(s)	Material (claimed by the client)
A1.1	Silvery plating metal (cover) 1#	Stainless steel
A2.1	White silicone seal ring & Black plastic handle & Black plastic round cover 2#	Silica gel & Plastic & PP
A2.2	Rubber ring (blue & red & fushcia) 2#	Rubber
A2.3	Rubber (dark blue & black) 2#	Rubber

Test item	Test Number	MDL	Test Result	Maximum permissible limit	Conclusion
Lead (Pb)	A1.1▲	5	15	100	PASS
	A2.1▲	5	11	100	PASS
	A2.2▲	5	13	100	PASS
	A2.3▲	5	12	100	PASS

Note:

- 1) MDL=Method Detection Limit.
- 2) N.D. = not detected, less than MDL.
- 3) Any substrate material, that is not more than 100ppm lead by weight.
- 4)“▲” = This data is obtained from composite testing on more than one materials, it is possible that result obtained from individual testing on any one of the materials is substantially higher. Please be cautious when using this data for compliance evaluation.

Remark:

Zhejiang RTS Test Co.,Ltd. is the US (CPSC) Accredited Third Party Testing Laboratory, [LAB ID: 1422](#), Shall refer to:

<https://www.cpsc.gov/cgi-bin/LabSearch/ViewDetail.aspx?ReqId=7%2bFdY2oZNSUVU5mvl6jQA%3d%3d&LabId=CJaa18d5DKIPqgie8zcyw%3d%3d>

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B. Total cadmium(Cd) content: (Unit: mg/kg)

Test Method:

Metal- As per US EPA 3050B:1996 modified, Analysis was performed by ICP-OES/AAS.

Non-metal- As per EN1122 : 2001 method B, Analysis was performed by ICP-OES/AAS.

Test Number	Item/ component description(s)		Material (claimed by the client)
A1.1	Silvery plating metal (cover) 1#		Stainless steel
A2.1	White silicone seal ring & Black plastic handle & Black plastic round cover 2#		Silica gel & Plastic & PP
A2.2	Rubber ring (blue & red & fushcia) 2#		Rubber
A2.3	Rubber (dark blue & black) 2#		Rubber

Test item	Test Number	MDL	Test Result	Client's requirement	Conclusion
Cadmium (Cd)	A1.1▲	5	N.D.	100	PASS
	A2.1▲	5	9	100	PASS
	A2.2▲	5	10	100	PASS
	A2.3▲	5	7	100	PASS

Note:

- 1) MDL=Method Detection Limit.
- 2) N.D. = not detected, less than MDL(5mg/kg).
- 3)“▲” = This data is obtained from composite testing on more than one materials, it is possible that result obtained from individual testing on any one of the materials is substantially higher. Please be cautious when using this data for compliance evaluation.

C. Phthalates Content test: (Unit: mg/kg)

Consumer Product Safety Commission (CPSC)16 CFR Part 1307 and California Proposition 65 A.B.1108.

Test method: CPSC-CH-C1001-09.4, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Number	Item/ component description(s)	Material (claimed by the client)
A1.2	Plastic bottle body (orange & red & blue) 1#	Tritan
A1.3	Plastic bottle body (black & dark blue & fushcia) 1#	Tritan
A2.1	White silicone seal ring & Black plastic handle & Black plastic round cover 2#	Silica gel & Plastic & PP
A2.2	Rubber ring (blue & red & fushcia) 2#	Rubber
A2.3	Rubber (dark blue & black) 2#	Rubber

Test Item(s)	CAS No.	Results					MDL	Limit value
		A1.2▲	A1.3▲	A2.1▲	A2.2▲	A2.3▲		
Dibutyl Phthalate(DBP)	84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Bis-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Di-n-octyl Phthalate(DNOP)	117-84-0	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Diisodecyl Phthalate(DIDP)	26761-40-0	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Di-iso-nonyl Phthalate(DINP)	28553-12-0	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Di-n-hexyl Phthalate(DHEXP)	84-75-3	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Diamyl phthalate (DPENP)	131-18-0	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	N.D.	N.D.	50	1000
Conclusion:	-	PASS	PASS	PASS	PASS	PASS	-	-

Note:

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

3)“▲” = This data is obtained from composite testing on more than one materials, it is possible that result obtained from individual testing on any one of the materials is substantially higher. Please be cautious when using this data for compliance evaluation.



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D. Bis-phenol-A(BPA) Content test:(Unit:mg/kg)

Test method: Extraction by organic solvent, Analysis was performed by GC-MS.

Test Number	Item/ component description(s)	Material (claimed by the client)
A1.2.1	Orange plastic bottle body 1#	Tritan
A1.4	White silica gel sealing ring 1#	Silica gel
A2.1.1	Black plastic round cover 2#	PP
A2.4	Fushcia plastic bottle body 2#	Tritan
A2.5	Red plastic bottle body 2#	Tritan
A2.6	Blue plastic bottle body 2#	Tritan
A2.7	Black plastic bottle body 2#	Tritan
A2.8	Dark blue plastic bottle body 2#	Tritan

Test Items	Test number	MDL	Test Results	Client's Limit	Conclusion
Bis-phenol-A(BPA) (CAS No.:80-05-7)	A1.2.1	0.1	N.D.	0.1	PASS
	A1.4	0.1	N.D.	0.1	PASS
	A2.1.1	0.1	N.D.	0.1	PASS
	A2.4	0.1	N.D.	0.1	PASS
	A2.5	0.1	N.D.	0.1	PASS
	A2.6	0.1	N.D.	0.1	PASS
	A2.7	0.1	N.D.	0.1	PASS
	A2.8	0.1	N.D.	0.1	PASS

Note:

- 1) 1mg/kg = 0.0001% = mass percent.
- 2) N.D. = Not detected, less than 0.1 mg/kg.

E.* Determination of Amount of Net Chloroform Soluble Extractives – US FDA 21 CFR 177.1210(Closure with Sealing Gaskets):

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

For preformed overall discs or annular rings from vulcanized plasticized polymers including rubber:

Test Number	Item/ component description(s)	Material (claimed by the client)
A1.4	White silica gel sealing ring 1#	Silica gel

Extractants	Test Condition	Test result(mg/kg) A1.4	Detection limit (mg/kg)	permissible Limit (mg/kg)
Distilled Water	250°F for 2 hours	<10.0	5	50

Note: 1) N.D= Not detected.

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F. * Soluble fraction in xylene – US FDA 21 CFR 177.1520:

As specified for client, to determine soluble fraction in xylene for compliance with the Food and Drug Administration Regulations for polypropylene used in contact with food.

Test method: With reference to FDA 21 CFR 177.1520.

Test Number	Item/ component description(s)		Material (claimed by the client)	
A2.1.1	Black plastic round cover 2#		PP	
Simulant Used	Time	Temp	Test result A2.1.1	Maximum Permissible Limit
Soluble fraction in xylene, w/w %	2h	25°C	0.80	9.8

Note:

1)<= less than.

2)%(w/w) = percentage of weight by weight.

G. * Extractable fraction in n-hexane – US FDA 21 CFR 177.1520:

As specified for client, to determine extractable fraction in n-hexane for compliance with the Food and Drug Administration Regulations for polypropylene used in contact with food.

Test method: With reference to FDA 21 CFR 177.1520.

Test Number	Item/ component description(s)		Material (claimed by the client)	
A2.1.1	Black plastic round cover 2#		PP	
Simulant Used	Time	Temp	Test result A2.1.1	Maximum permissible Limit
Extractable fraction in n-hexane at reflux temperature , w/w %	2h	reflux temperature	1.2	6.4

Note:

1)<= less than.

2)%(w/w) = percentage of weight by weight.



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H.* Density at 23°C – FDA 21 CFR 177.1520:

As specified for client, to determine density at 23°C for compliance with the Food and Drug Administration Regulations for polypropylene used in contact with food.

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

Test Number	Item/ component description(s)	Material (claimed by the client)
A2.1.1	Black plastic round cover 2#	PP
Test item(s)	Test result	Maximum permissible Limit
Density, g/cm ³ Comment	A2.1.1 0.910	0.880-0.913

I.* Melting point – FDA 21 CFR 177.1520:

As specified for client, to determine melting point for compliance with the Food and Drug Administration Regulations for polypropylene used in contact with food.

Test method: With reference to FDA 21 CFR 177.1520 d(2).

Test Number	Item/ component description(s)	Material (claimed by the client)
A2.1.1	Black plastic round cover 2#	PP
Test item(s)	Test result	Maximum permissible Limit
Melting point, °C	A2.1.1* 167	160-180

**= As specified by client ,the retest result is based on the new sample.

J.*US FDA 21 CFR 177.2420 -Determination of Amount of Net Chloroform Soluble Extractives:

Test method: With reference to US FDA 21 CFR 177.2420.

Test Number	Item/ component description(s)	Material (claimed by the client)					
A2.4	Fushcia plastic bottle body 2#	Tritan					
A2.5	Red plastic bottle body 2#	Tritan					
A2.6	Blue plastic bottle body 2#	Tritan					
A2.7	Black plastic bottle body 2#	Tritan					
A2.8	Dark blue plastic bottle body 2#	Tritan					
Extractants	Test Condition	Test result(mg/in ²)					permissible Limit (mg/in ²)
		A2.4	A2.5	A2.6	A2.7	A2.8	
Distilled Water	250°F for 2 hours	<0.1	<0.1	<0.1	<0.1	<0.1	0.1

Note: 1)<= less than.

----- End of Report -----

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