

OVERALL RESULT:

Country of Distribution:

Main Material:

Testing Period:

Buyer:

Supplier:

\mathcal{P} PASS

Refer to page 2 for test result summary and appropriate notes.

PE,silicone,TPR

100396

Europe

Mid Ocean Brands B.V.

04/29/2019-05/07/2019

HANGZHOU ASIAINSPECTION TESTING TECHNOLOGY CO., LTD

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Test Report #19A-002116-1Date of Report Issue:May 7, 2019Date of Sample Received:April 28, 2019Pages:Page 2 of 13

TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate
PASS	Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate
PASS	Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52
PASS	Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011, its amendment (EU) 2016/1416
PASS	and Res AP(2004)5- Overall migration
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU)
PA33	2016/1416- Specific migration of heavy metals
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Bisphenol A



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Pages:

DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method:CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3	4	5	1+2		Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND		500
Conclusion	PASS	PASS	PASS	PASS		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Pages:

DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method:ASTM F963-17 Clause 8.3.1Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3	4	5	1+2		Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND	ND	ND		100
Conclusion	PASS	PASS	PASS	PASS		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Pages:

DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method:	CPSC-CH-C1001-09.4
Analytical Method:	Gas Chromatography with Mass Spectrometry

Specimen No.		3	4	5	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	1000
Sum of DBP, BBP, DEHP	, DIBP	ND	ND	ND	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	
Sum of DnOP, DINP, D	ND	ND	ND	1000	
Conclusion		PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass) LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method:	CPSC-CH-C1001-09.4
Analytical Method:	Gas Chromatography with Mass Spectrometry

Specimen No.		1+2			Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND			1000
Benzyl butyl phthalate (BBP)	85-68-7	ND			1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND			1000
Diisobutyl phthalate (DIBP)	84-69-5	ND			1000
Sum of DBP, BBP, DEHP	, DIBP	ND			1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND			
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND			
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND			
Sum of DnOP, DINP, D	ND			1000	
Conclusion		PASS			

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass) LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Pages:

DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011, its amendment (EU) 2016/1416 and Res AP(2004)5-Overall migration

Test method: EN1186-1:2002: for selection of conditions and test methods EN1186-3:2002: aqueous food simulants by total immersion EN1186-9:2002: aqueous food simulants by article filling

Specimen No.		1	3	4	Maximum
Simulant used	Test condition	Result (mg/dm²)	Result (mg/dm²)	Result (mg/dm²)	permissible Limit (mg/dm²)
3% acetic acid	2 hours at 70°C	ND	ND	ND	10
50% ethanol	2 hours at 70°C	ND	ND	ND	10
Conclusion		PASS	PASS	PASS	

Specimen No.		5			Maximum
Simulant used	Test condition	Result (mg/dm²)	Result (mg/dm²)	Result (mg/dm²)	permissible Limit (mg/dm²)
3% acetic acid	2 hours at 70°C	ND			10
50% ethanol	2 hours at 70°C	ND			10
Conclusion		PASS			

Note:

mg/dm² =milligram per square decimeter ND = Not Detected (Reporting limit = 3 mg/dm²)



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Pages:

DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals

Test method: Sample preparation in 3% acetic acid at 70°C for 2hours ,ISO 17294-2:2016 Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Specimen No.		4	5			Maximum
Test Item	Detection	Result	Result	Result	Result	permissible Limit
rest item	limit	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Barium	0.1	ND	ND			1
Cobalt	0.05	ND	ND			0.05
Copper	0.5	ND	ND			5
Iron	1.0	ND	ND			48
Lithium	0.1	ND	ND			0.6
Manganese	0.1	ND	ND			0.6
Zinc	1.0	ND	ND			24
Aluminum	0.1	0.7	0.1			1
Nickel	0.01	ND	ND			0.02
Conclus	ion	PASS	PASS			

Note:

mg/kg=milligram per kilogram ND= Not Detected



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Pages:

DETAILED RESULTS:

Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Bisphenol A

Test method: EN 13130-1:2004 & DD CEN/TS 13130-13:2005

Specimen No.		1	3	4	5		Limit
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Bisphenol A (BPA)	70℃, 2h 3% Acetic acid	ND	ND	ND	ND		0.05
Conclusion		PASS	PASS	PASS	PASS		

Note :

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 0.05mg/kg)



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Pages:

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black soft plastic	Suction nozzle (black style)
2	White soft plastic	Suction nozzle (white style)
3	Translucent soft plastic	Sealing ring (all styles)
4	Red plastic	Bottle (red style)
5	Black plastic	Lid (black style)



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Pages:

SAMPLE PHOTO:





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520 2

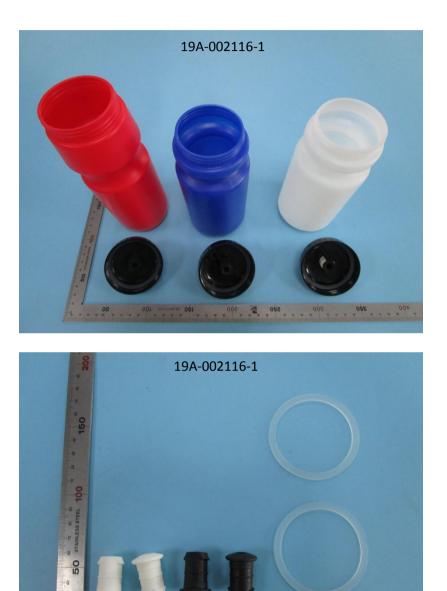
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190



Pages:

SAMPLE PHOTO:



-End Report-

20



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500