



TEST REPORT

Report No.: STSGZ2208263011E

Date: 8-Sep-2022

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Applicant : Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Alu 30 cm architectural ruler

Model: MO6698

Receiving Date: 26-Aug-2022

Test Period: From 26-Aug-2022 to 7-Sep-2022

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006	EN 12472:2020+A1:2009&EN 1811:2011+A1: 2015, determined by ICP-OES	PASS
3	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS
4	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Guangzhou Depuhua Test Services Co. Ltd.

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Result:

1. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound	Material			Limit (mg/kg)	RL (mg/kg)
	1				
1 Cadmium (Cd) CAS#7440-43-9	N.D.			1000	10
Conclusion	PASS			-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

2. Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 12472:2005+A1:2009(带镀层)&EN 1811:2011+A1: 2015, determined by ICP-OES

Compound	Material			Limit ($\mu\text{g}/\text{cm}^2/\text{week}$)	RL ($\mu\text{g}/\text{cm}^2/\text{week}$)
	2				
	A	B	C		
Sample area (cm^2)	23.82	23.82	23.82	-	-
Volume of Test Solution (ml)	23.82	23.82	23.82	-	-
Result	N.D.	N.D.	N.D.	#	0.05
Conclusion	PASS			-	-

Remark(s): (a) $\mu\text{g}/\text{cm}^2/\text{week}$: microgram per square centimeter per week
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
#: 1. Inserted into pierced parts of the human body Limit: $0.35\mu\text{g}/\text{cm}^2/\text{week}$
2. Come into direct and prolonged contact with the skin Limit: $0.88\mu\text{g}/\text{cm}^2/\text{week}$

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**3. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006
EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS**

Compound			Material		Limit (%)	RL (%)
			1			
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.		-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.		-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	0.0176		-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.		-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.		-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.		-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.		-	0.005
8	Sum of 1, 2, 3 & 4		0.0176		0.1	-
9	Sum of 5, 6 & 7		N.D.		0.1	-
Conclusion			PASS		-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

**4. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006
IEC 62321-5:2013, determined by AAS**

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1	2		
1	Lead(Pb) CAS#7439-92-1	N.D.	95	500	10
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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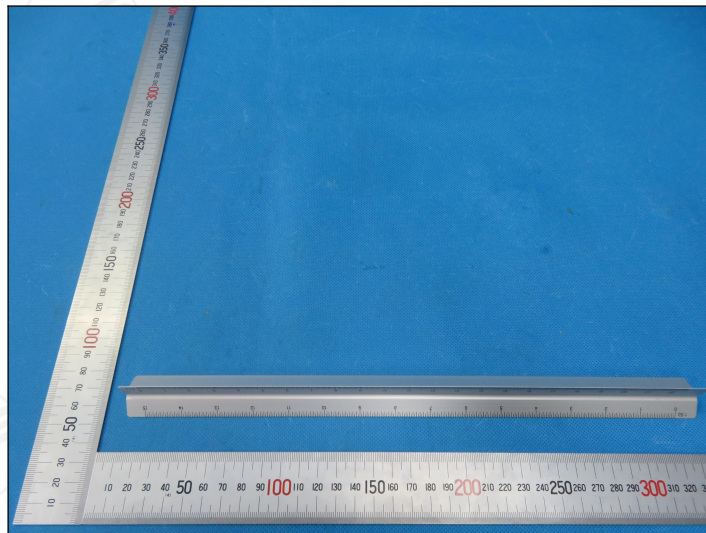
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Material List:

Material #	Position / Sample Description
1	Black coating, ruler
2	Silvery metal, ruler

Photo(s):



Photo

<<< <<< END OF REPORT >>> >>>

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