中国认可
国际互认
检测
TESTING
CNAS L6478

TEST REPORT

Reference No.	:	WTF19F12089293A1C
Applicant	:	Mid Ocean Brands B.V.
Address	:	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	:	103369
Sample Name	:	Ball pen and key ring set, Business gift set
Model No.	:	KC7149, MO8406
Test Requested	:	1) Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628 2) Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011, No. 835/2012 and (EU) 2016/217 3) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005
Test Method	:	Please refer to next page (s)
Test Conclusion	:	Please refer to next page (s)
Date of Receipt sample	:	2019-12-23 & 2020-01-07
Date of Test	:	2019-12-23 to 2020-01-09
Date of Issue	:	2020-01-10
Test Result	:	Please refer to next page (s)

Remarks:
The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.
If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

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Rena.Chen / Project Engineer

Approved by: Swing Liang
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Test Result:

1) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	MDL (mg/kg)	Results (mg/kg)					Limit (mg/kg)
		No.1	No.2	No.3	No.4	No.5	
Lead(Pb)	2	ND	25	ND	ND	451	500
Conclusion	--	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.6	No.7	No.8+No.10+No.20	
Lead(Pb)	2	ND	ND	ND*	500
Conclusion	--	**Pass**	**Pass**	**Pass**	--

Test Item	MDL (mg/kg)	Results (mg/kg)					Limit (mg/kg)
		No.9	No.11	No.12	No.13	No.14	
Lead(Pb)	2	ND	ND	ND	ND	ND	500
Conclusion	--	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	--

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.15	No.16+No.19+No.21	
Lead(Pb)	2	ND	ND*	500
Conclusion	--	**Pass**	**Pass**	--

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.17+No.22+No.23	No.18	
Lead(Pb)	2	ND*	ND	500
Conclusion	--	**Pass**	**Pass**	--

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.24	No.25+No.26	
Lead(Pb)	2	ND	ND*	500
Conclusion	--	**Pass**	**Pass**	--

Note:
(1) mg/kg = milligram per kilogram
(2) ND = Not Detected (lower than MDL)
(3) MDL = Method Detection Limit
(4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
(5) "*" = Results are calculated by the minimum weight of mixed components.

2) Cadmium (Cd)
Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	MDL (mg/kg)	Results (mg/kg)			
		No.2	No.11	No.12	No.14
Cadmium(Cd)	2	ND	ND	ND	ND
Conclusion	--	**Pass**	**Pass**	**Pass**	**Pass**

Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.16+No.19+No.21	No.17+No.22+No.23
Cadmium(Cd)	2	ND*	ND*
Conclusion	--	**Pass**	**Pass**

Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.24	No.25+No.26
Cadmium(Cd)	2	ND	ND*
Conclusion	--	**Pass**	**Pass**

Note:
(1) mg/kg = milligram per kilogram
(2) ND = Not Detected (lower than MDL)
(3) MDL = Method Detection Limit
(4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

(5) "*" = Results are calculated by the minimum weight of mixed components.

3) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	MDL (%)	Results (%)	Limit (%)
		No.2	
Benzyl butyl phthalate (BBP)	0.005	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	
Dibutyl phthalate (DBP)	0.005	ND	
Diisobutyl phthalate (DIBP)	0.005	ND	
Diisodecyl phthalate (DIDP)	0.01	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND	
Conclusion	--	**Pass**	--

Note:

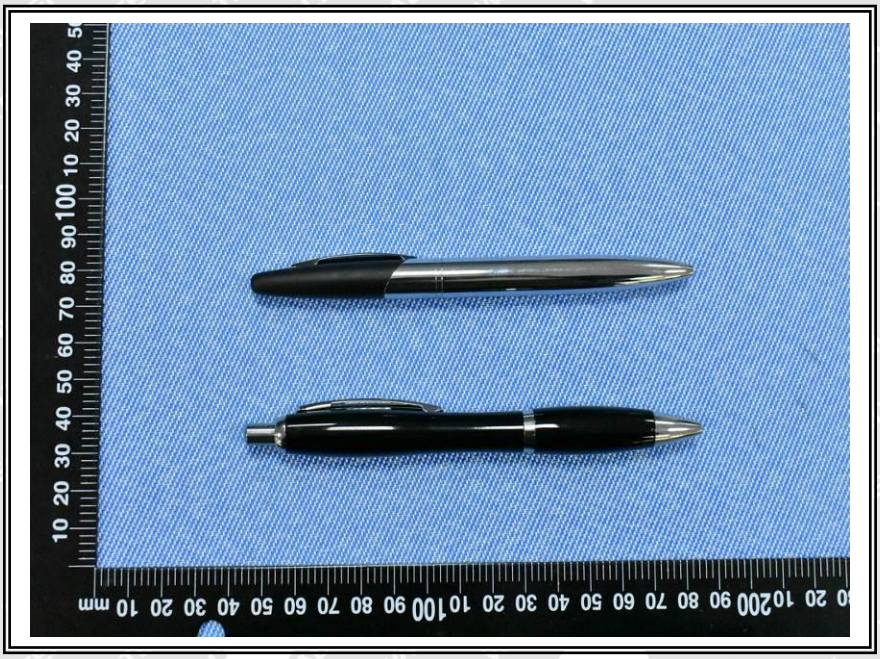
DBP= Dibutyl phthalate BBP= Benzyl butyl phthalate DEHP= Bis-(2-ethylhexyl)- phthalate
DINP= Di-isononyl phthalate DNOP= Di-n-octyl phthalate DIDP= Di-isodecyl phthalate
DIBP= Diisobutyl phthalate

(1) % = percentage by weight
(2) ND = Not detected or Less than the method detection limit
(3) MDL=Method Detection Limit
(4) “<” = less than
(5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

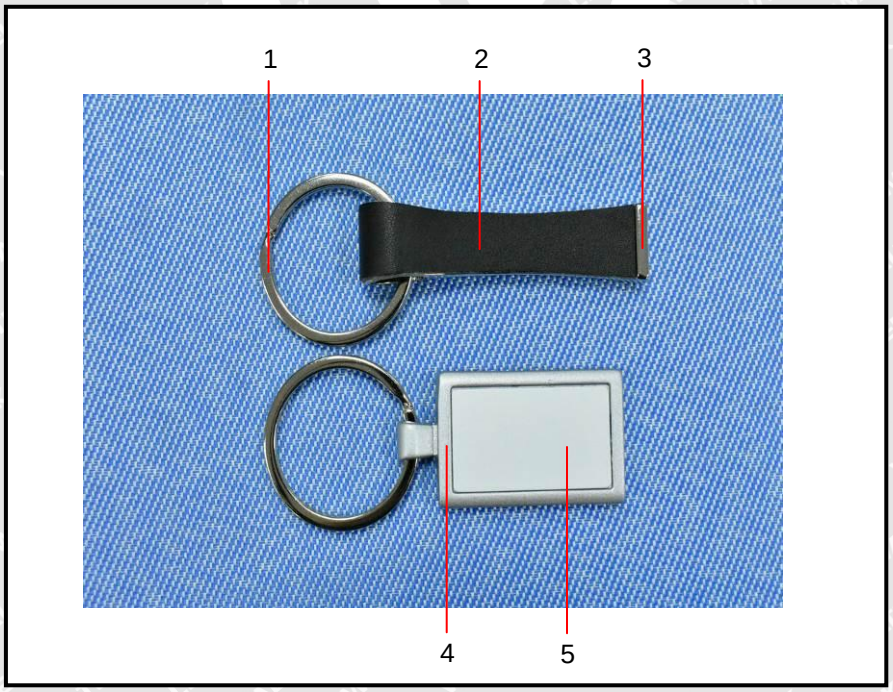
Test Specimen Description:

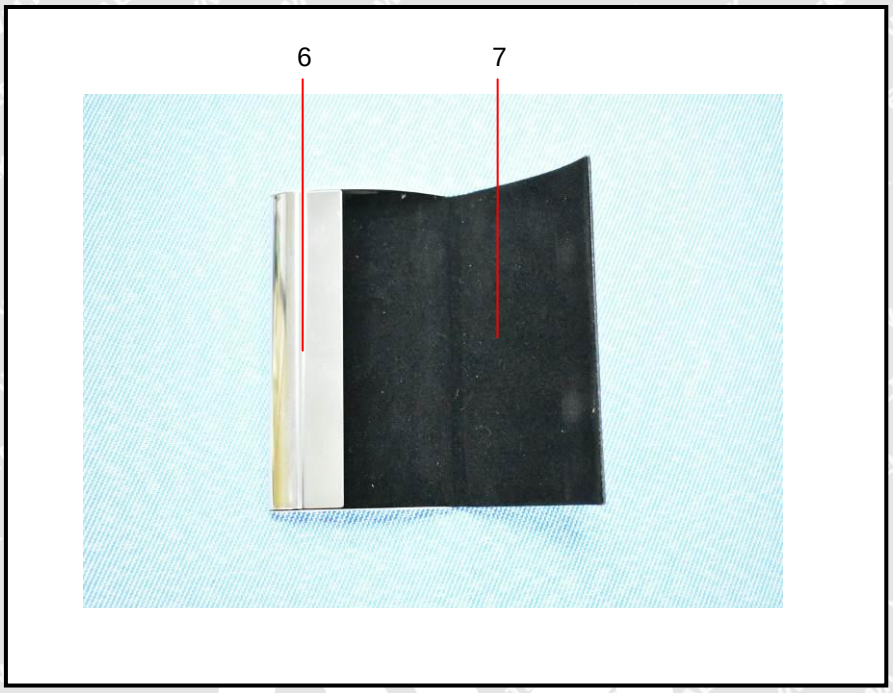
No.1: Silvery metal ring
No.2: Black synthetic leather
No.3: Silvery metal sheet
No.4: Silvery metal shell
No.5: Silvery metal sheet
No.6: Silvery metal shell
No.7: Black fabric
No.8: Silvery metal barrel
No.9: Silvery metal tube
No.10: Silvery metal clip
No.11: Silvery metal barrel with black coating
No.12: Blue ink
No.13: Silvery metal refill
No.14: Blue plastic end
No.15: Orange plastic barrel with black coating
No.16: White plastic cap with silvery plating
No.17: Off-white plastic tube
No.18: Silvery metal spring
No.19: White plastic cap with silvery plating
No.20: Silvery metal clip
No.21: White plastic ring with silvery plating
No.22: Blue plastic end
No.23: White plastic end
No.24: Blue ink
No.25: White plastic refill
No.26: White plastic end

Sample photo:



Photographs of parts tested:

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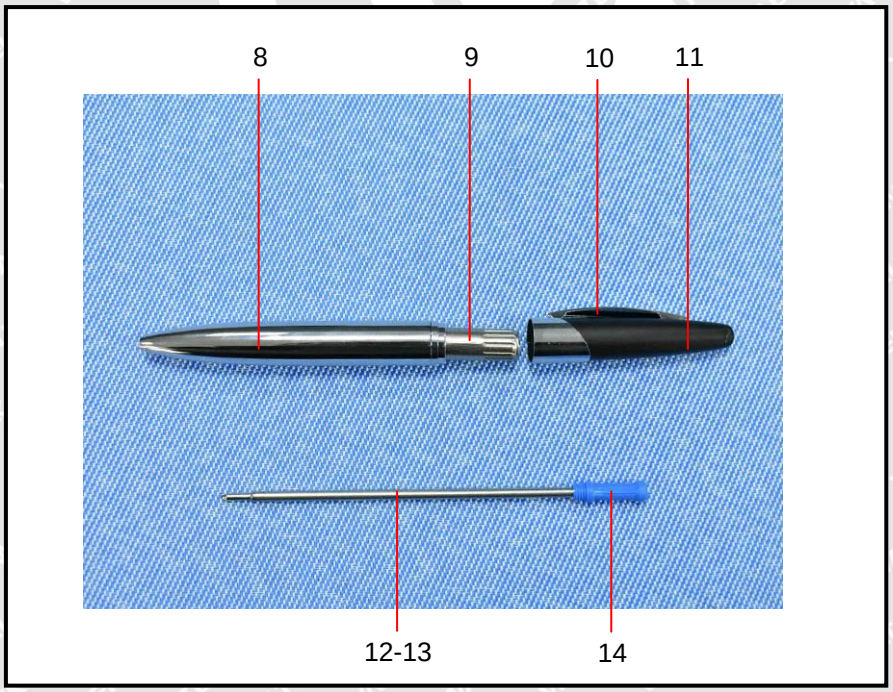
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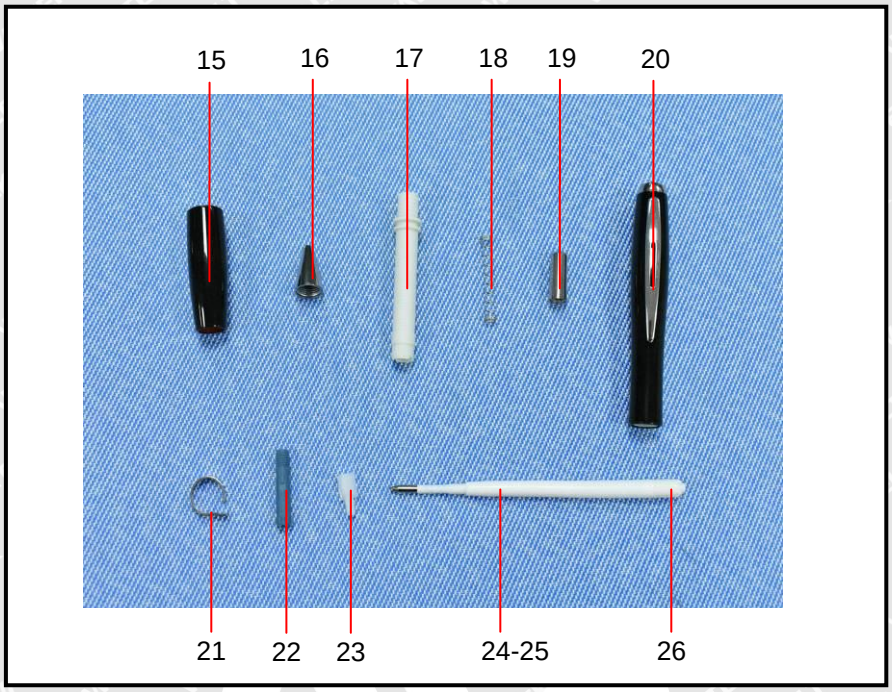

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