

Test Report

Report No.: MG26G3164R

Date: Aug. 04, 2026

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Applicant: Mid Ocean Brands B.V.

Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

Manufacturer: 117486

Address: N/A

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name: Twist metal ball pen and charging cable set

Test Model: MO3152

Sample Received Date: Jul. 13, 2026

Testing Period: Jul. 13, 2026 to Jul. 16, 2026

Test Requested:

As requested by the applicant, refer to attached page(s) for details.

Approved by:

Jack Leung

Jack Leung/Technical Manager



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Summary of Test Results:

No.	Test Standard	Conclusion
1	European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 23 on Cadmium content	Pass
2	European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 63 on Lead content	Pass
3	European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 51&52 on Phthalates content	Pass
4	European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 50 on Polycyclic-aromatic hydrocarbons (PAHs) content	Pass

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Test Result(s):

(1)Cadmium content

Test Method: With reference to IEC 62321-5:2013

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)	Unit	MDL	Limit	Test Results			
				1+2	3+4+5	6+7+11	14
Cadmium (Cd)	mg/kg	2	100	N.D.	N.D.	N.D.	N.D.

(2)Lead content

Test Method: With reference to IEC 62321-5:2013

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)	Unit	MDL	Limit	Test Results			
				1+2	3+4+5	6+7+11	8+9+10
Lead (Pb)	mg/kg	10	500	N.D.	N.D.	N.D.	N.D.

Test Item(s)	Unit	MDL	Limit	Test Results		
				12+13	14	15+16
Lead (Pb)	mg/kg	10	500	N.D.	N.D.	N.D.

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(3)Phthalates content

Test Method: With reference to EN 14372:2004

Test Instrument: Gas Chromatographic-Mass Spectrometric (GC-MS)

Test Item(s)	Unit	MDL	Limit	Test Results	
				1+2	3+4+5
Dibutyl Phthalate(DBP)	mg/kg	30	/	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	mg/kg	30		N.D.	N.D.
Bis (2-ethylhexyl) phthalate(DEHP)	mg/kg	30		N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	30		N.D.	N.D.
SUM(DBP+BBP+DEHP+DIBP)	mg/kg	/	1000	N.D.	N.D.
Diisononyl Phthalate(DINP)	mg/kg	50	/	N.D.	N.D.
Di-n-octyl Phthalate(DNOP)	mg/kg	30		N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	50		N.D.	N.D.
SUM(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.

Test Item(s)	Unit	MDL	Limit	Test Results	
				6+7+11	14
Dibutyl Phthalate(DBP)	mg/kg	30	/	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	mg/kg	30		N.D.	N.D.
Bis (2-ethylhexyl) phthalate(DEHP)	mg/kg	30		N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	30		N.D.	N.D.
SUM(DBP+BBP+DEHP+DIBP)	mg/kg	/	1000	N.D.	N.D.
Diisononyl Phthalate(DINP)	mg/kg	50	/	N.D.	N.D.
Di-n-octyl Phthalate(DNOP)	mg/kg	30		N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	50		N.D.	N.D.
SUM(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.

Note: 1. mg/kg = milligram per kilogram (ppm)

2. N.D. = Not Detected (< MDL)

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3. MDL = Method Detection Limit

(4)PAHs Content- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006

Test Method: AfPS-GS-2019-01: PAK

Test Instrument: Gas Chromatographic-Mass Spectrometric (GC-MS)

Test Item(s)	Unit	MDL	Test Result (s)			
			1+2	3+4+5	6+7+11	14
Benzo[a]anthracene (BaA)	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Chrysene (CHR)	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Benzo[b]fluoranthene (BbF)	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Benzo[k]fluoranthene (BkF)	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Benzo[a]pyrene (BaP)	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene (DBA)	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Benzo[e]pyrene	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.
Sum of PAHs	mg/kg	--	N.D.	N.D.	N.D.	N.D.

- Note:
1. mg/kg = milligram per kilogram (ppm)
 2. N.D. = Not Detected (< MDL)
 3. MDL = Method Detection Limit
 4. The PAHs content limit is Category 1

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Remark:

(EU) No 1272/2013 amending Item No 50 of Annex XVII of REACH Regulation (EC) 1907/2006

Parameter (mg/kg)	Category 1	Category 2
	Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use Such articles include amongst others: - sport equipment such as bicycles, golf clubs, racquets. - household utensils, trolleys, walking frames - tools for domestic use - clothing, footwear, gloves and sportswear - watch-straps, wrist-bands, masks, head-bands	Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use,
Benzo[a]pyrene	<1	<0.5
Benzo[e]pyrene	<1	<0.5
Benzo[a]anthracene	<1	<0.5
Benzo[b]fluoranthene	<1	<0.5
Benzo[j]fluoranthene	<1	<0.5
Benzo[k]fluoranthene	<1	<0.5
Chrysene	<1	<0.5
Dibenzo[a,h]anthracene	<1	<0.5

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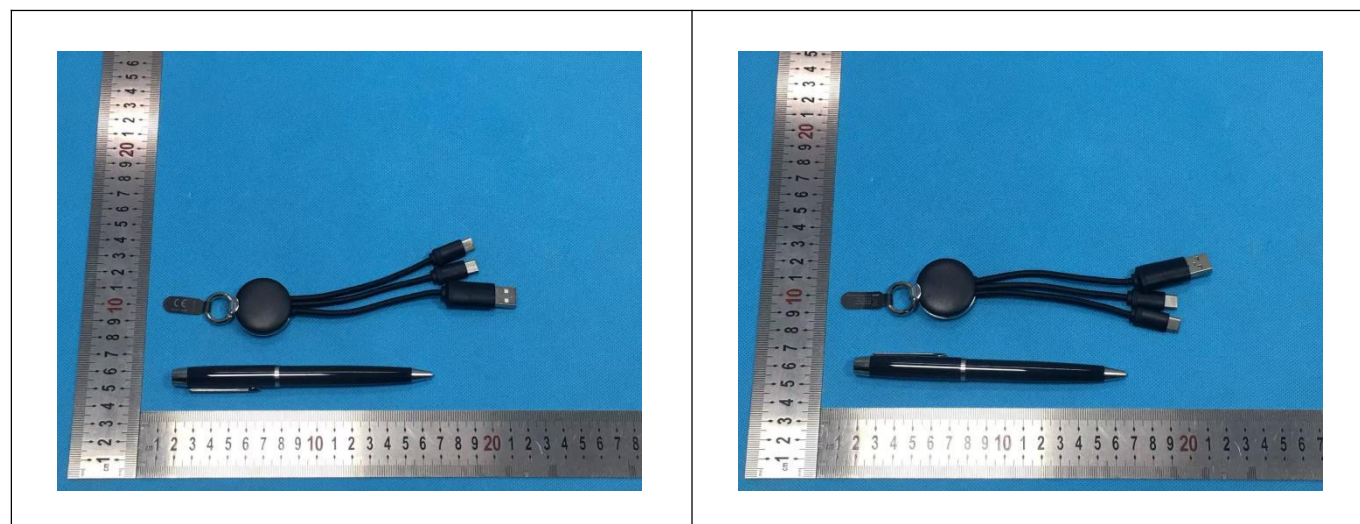
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Sample Description:

No.	Description
1	Black paperboard(box)
2	Black paperboard(box filler)
3	White plastic(fastener)
4	White plastic(knob)
5	Blue plastic(knob)
6	Silver printed white plastic(pen tip fastener)
7	Black plastic(fastener)
8	Black printed silvery metal(pen body)
9	Silvery metal(spring)
10	Black printed silvery metal(pen cap)
11	Silver printed white plastic(fastener)
12	Silvery metal(knob)
13	Silvery metal(pen clip)
14	Blue ink(pen)
15	Silvery metal(pen tip)
16	Silvery metal(pen rod)

Sample Photos:



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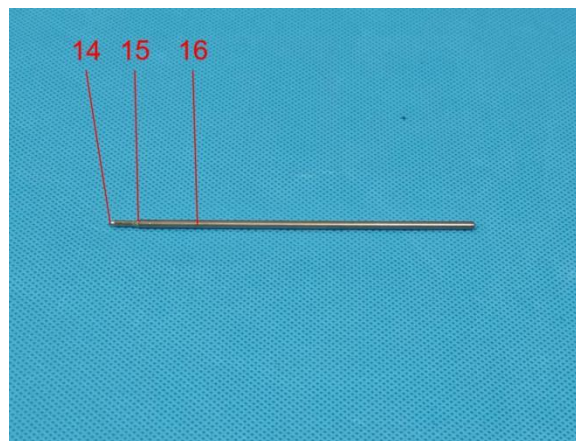
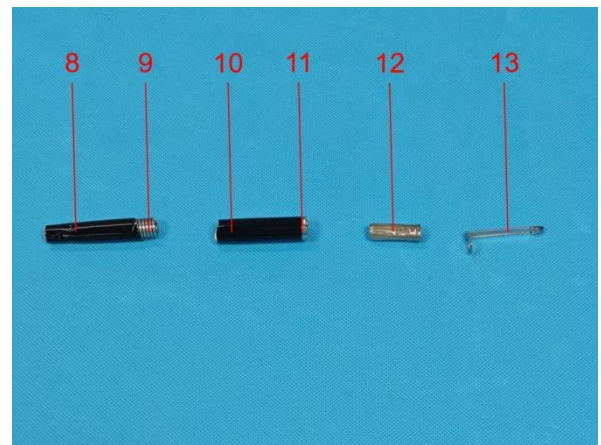
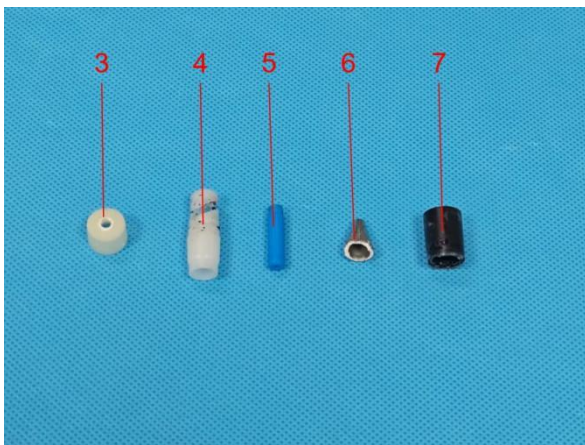
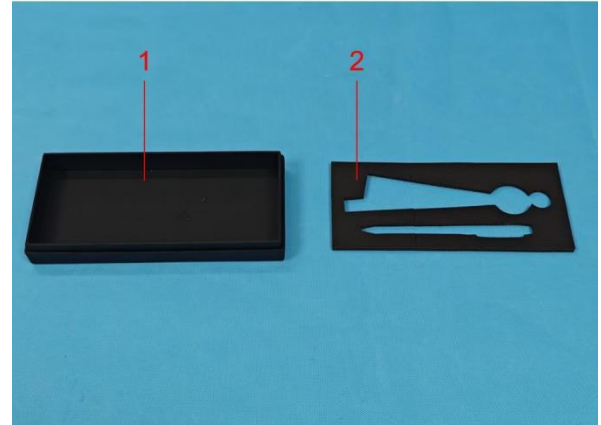
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