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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: Laser pointer touch pen,

Laser pointer in wooden box

Model: MO8097, MO8193

Vendor code: 107978

Receiving Date: Mar 7,2025; Mar 27,2025

Test Period: From Mar 7,2025 to Apr 1,2025

Add Information:

Test Summary:

#	Test Item(s)	Conclusion
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 ,(EU)2017/2102,(EU)2022/1632 (RoHS 2.0)	PASS



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Result:

1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Soc No	Tootod Port/o	Results					
Seq. No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br	
1	Silvery metal,shell	BL	BL	BL	BL	NA	
2	Grey foam,cushion	BL	BL	BL	BL	BL	
3	Silvery metal,pole	BL	BL	BL	BL	NA	
4	Black soft plastic,lid	BL	BL	BL	BL	BL	
5	Bright silvery coating, loop	BL	BL	BL	BL	BL	
6	Black plastic,loop	BL	BL	BL	BL	BL	
7	Silvery plated coppery metal,shell	BL	BL	BL	Х	NA	
8	Bright silvery coating, loop	BL	BL	BL	BL	BL	
9	White plastic,loop	BL	BL	BL	BL	BL	
10	White plastic,button	BL	BL	BL	BL	BL	
11	Silvery metal,pothook	BL	BL	BL	BL	NA	
12	White plastic,stopper	BL	BL	BL	BL	BL	
13	Transparent plastic,tube	BL	BL	BL	BL	BL	
14	Black pigment	BL	BL	BL	BL	BL	
15	Silvery metal,pen point	BL	BL	BL	BL	NA	
16	Silvery metal,bead	BL	BL	BL	BL	NA	
17	Silvery metal,spring	BL	BL	BL	Х	NA	
18	Translucent plastic,base	BL	BL	BL	BL	BL	
19	Transparent plastic,LED	BL	BL	BL	BL	Х	
20	Silvery metal,lead	BL	BL	BL	BL	NA	
21	Black soft plastic, wire jacket	BL	BL	BL	BL	BL	
22	Silvery coating, shell		BL	BL	BL	BL	
23	Black plastic, shell	BL	BL	BL	BL	BL	
24	Black plastic,lid	BL	BL	BL	BL	BL	
25	Transparent plastic,lid	BL	BL	BL	BL	BL	



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26	Silvery metal,spring	BL	BL	BL	Х	NA
27	Golden metal,spring	BL	Х	BL	BL	NA
28	Red plastic,button	BL	BL	BL	BL	BL
29	Silvery metal,shell	BL	BL	BL	BL	NA
30	Silvery metal,spring plate	BL	BL	BL	BL	NA
31	Black plastic,base	BL	BL	BL	BL	BL
32	Silvery metal,lead	BL	BL	BL	BL	NA
33	Black self-adhesive sticker	BL	BL	BL	BL	BL
34	Silvery metal,contact plate	BL	BL	BL	BL	NA
35	Silvery metal, solder	BL	BL	BL	BL	NA
36	Yellow PCB	BL	BL	BL	BL	BL
37	Black body, resistance	BL	BL	BL	BL	BL
38	Brown/fuscous brown plastic, film	BL	BL	BL	BL	BL
39	Black printing transparent plastic, mark	BL	BL	BL	BL	BL
40	Brown fiber board,storage box	BL	BL	BL	BL	BL
41	White paper, storage box	BL	BL	BL	BL	BL
42	Grey/black foam,cushion	BL	BL	BL	BL	BL
43	Coppery metal,tube	BL	BL	BL	BL	NA
44	White/green/grey plastic,tube	BL	BL	BL	BL	BL
45	Silvery-grey metal,spring	BL	BL	BL	Х	NA
46	Blue pigment	BL	BL	BL	BL	BL

Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Element Unit Polymers		Metals	Composite material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	BL≤50-3σ< X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL

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Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X		BL≤250-3σ< X

Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives (EU) 2015/863:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous Results)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenyl ethers (PBDEs)	1000

(4) Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect(e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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(5) The selection of test portions was recommended by the client and the conclusion of chemical test is only for the selected portions.



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1.2 Hexavalent Chromium (Cr(VI))

Metal: IEC 62321-7-1:2015, extracted by boiling water and analyzed by UV-Vis Non-metal: IEC 62321-7-2:2017, alkaline digested and analyzed by UV-Vis

	Test Item/s)	Result				Limit	MDI
	Test Item(s)	7	17	26	45	Limit	MDL
1	Hexavalent Chromium (Cr(VI))	Negative	Negative	Negative	Negative	#	-
-	Conclusion	PASS	PASS	PASS	PASS	-	-

Remark(s) (a) ug/cm2: microgram per square centimeter

(b) MDL: Method detected limit

(c) Negative = Sample Cr(VI) concentration is less than 0.10 ug/cm²
Positive = Sample Cr(VI) concentration is greater than 0.13 ug/cm²

1.3 Cadmium Content (Cd)

IEC62321-5:2013, acid digested and determined by AAS

Test Item(s)		Result	Limit	MDL
	rest item(s)	27	(mg/kg)	(mg/kg)
1	Cadmium (Cd)	N.D.	100	10
-	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligrams per kilogram

(b) MDL: Method detected limit

(c) N.D.: Not detected (result is less than MDL)

1.4 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs)

IEC 62321-6:2015, solvent extract and determined by GC-MS

Test Item(s)		Result	Limit	MDL
		19	(mg/kg)	(mg/kg)
1	Monobromo biphenyl	N.D.	-	50
2	Dibromo biphenyl	N.D.	-	50
3	Tribromo biphenyl	N.D.	-	50
4	Tetrabromo biphenyl	N.D.	1-1-1-	50

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⁽d) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.



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-	Conclusion	PASS	-	-
-	Sum of PBDEs	N.D.	1000	-
-	Sum of PBBs	N.D.	1000	-
20	Decabromo diphenyl ether	N.D.	-	50
19	Nonabromo diphenyl ether	N.D.	-	50
18	Octabromo diphenyl ether	N.D.	-	50
17	Heptabromo diphenyl ether	N.D.	314.	50
16	Hexabromo diphenyl ether	N.D.		50
15	Pentabromo diphenyl ether	N.D.	-	50
14	Tetrabromo diphenyl ether	N.D.	-	50
13	Tribromo diphenyl ether	N.D.	-	50
12	Dibromo diphenyl ether	N.D.	-	50
11	Monobromo diphenyl ether	N.D.	-	50
10	Decabromo biphenyl	N.D.	-	50
9	Nonabromo biphenyl	N.D.	-	50
8	Octabromo biphenyl	N.D.	-	50
7	Heptabromo biphenyl	N.D.	-	50
6	Hexabromo biphenyl	N.D.	-	50
5	Pentabromo biphenyl	N.D.	-	50

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

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1.5

Phthalates – (DBP, BBP, DEHP, DIBP) IEC 62321-8:2017, Solvent extract and determined by GC-MS

	Tool	14a-m-(a)	Result				Limit (0/)	MDL (9/)
	rest	Item(s)	2	2 4 5+8 6+9+10		Limit (%)	MDL(%)	
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
-	- Conclusion		PASS	PASS	PASS	PASS	-	-

Test Item(s)			Result				Limit (0/)	MDL (0/)	
	rest	item(s)	12+13	14	18+19+23	21	Limit (%)	MDL(%)	
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005	
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005	
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005	
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005	
- Conclusion		PASS	PASS	PASS	PASS	-	-		

	Took Home(a)			Re	Limit (0/)	MDI (0/)		
Test Item(s)		22	24+25	28+31	33	Limit (%)	MDL(%)	
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
-	- Conclusion		PASS	PASS	PASS	PASS	-	-

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Tool Home(a)				Res	Limit (0/)	MDL (0/)		
Test Item(s)		36	37	38+39	40	Limit (%)	MDL(%)	
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	ВВР	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
-	Conclusion		PASS	PASS	PASS	PASS	-	-

Tool Home(a)				Res	Limit (0/)	MDL (0/)		
Test Item(s)		41	42	44	46	Limit (%)	MDL(%)	
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
-	Conclusion		PASS	PASS	PASS	PASS	-	-

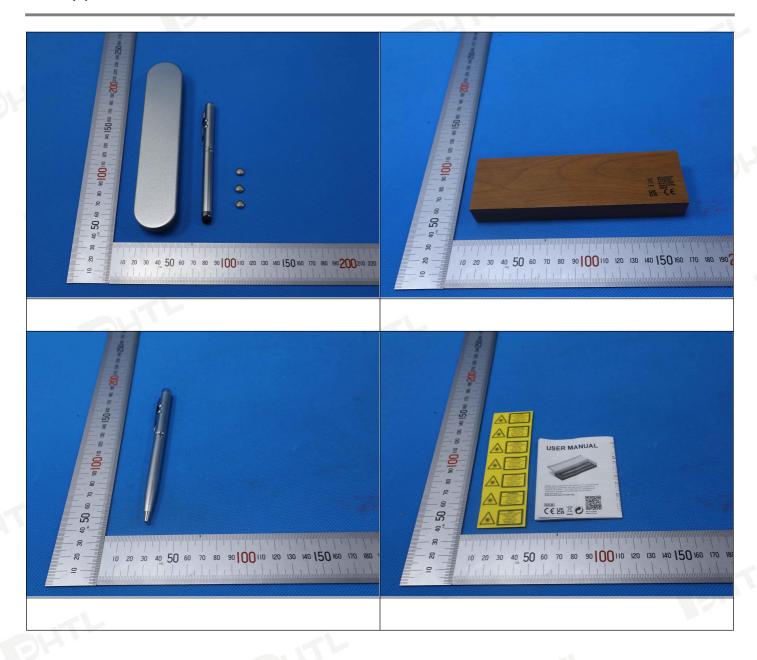
Remark(s): (a) MDL: Method detected limit (b) N.D.: Not detected (result is less than MDL)

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Photo(s):

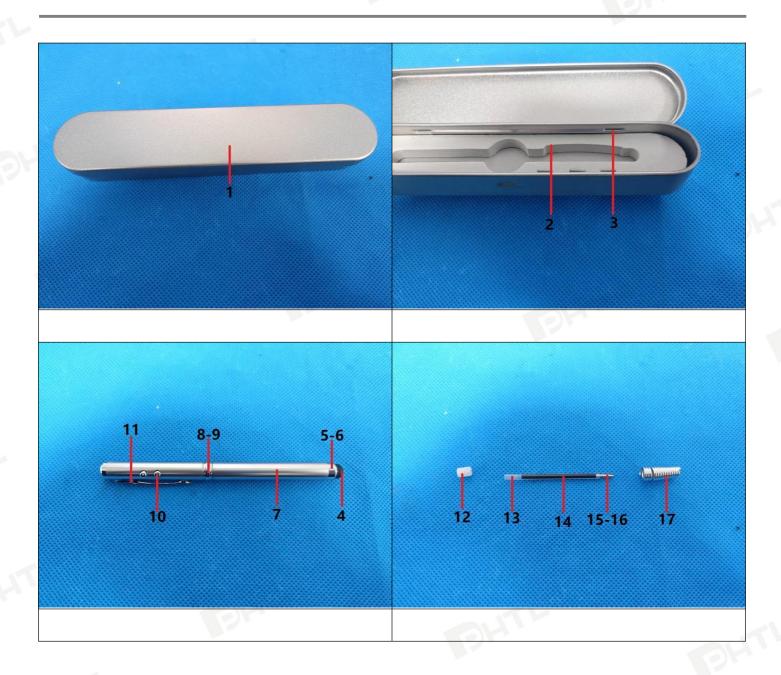


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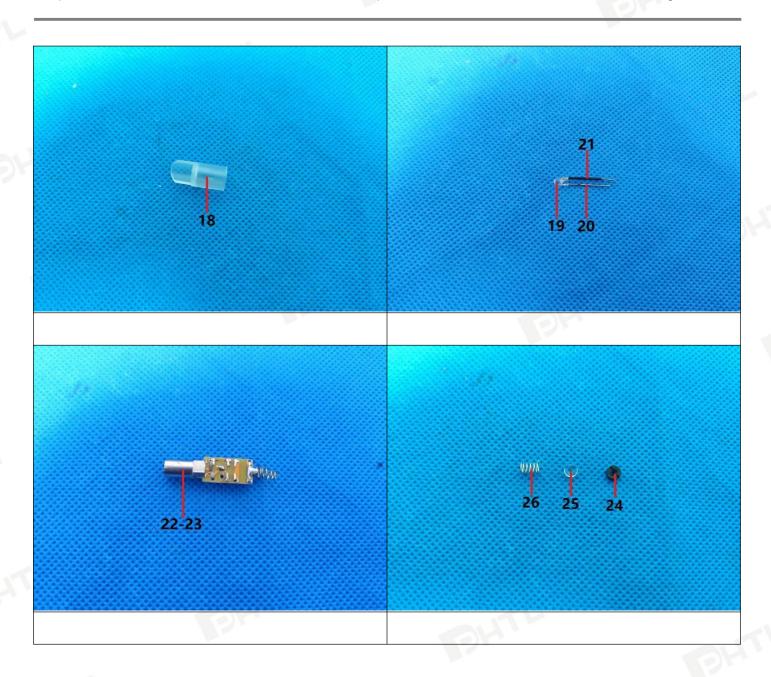


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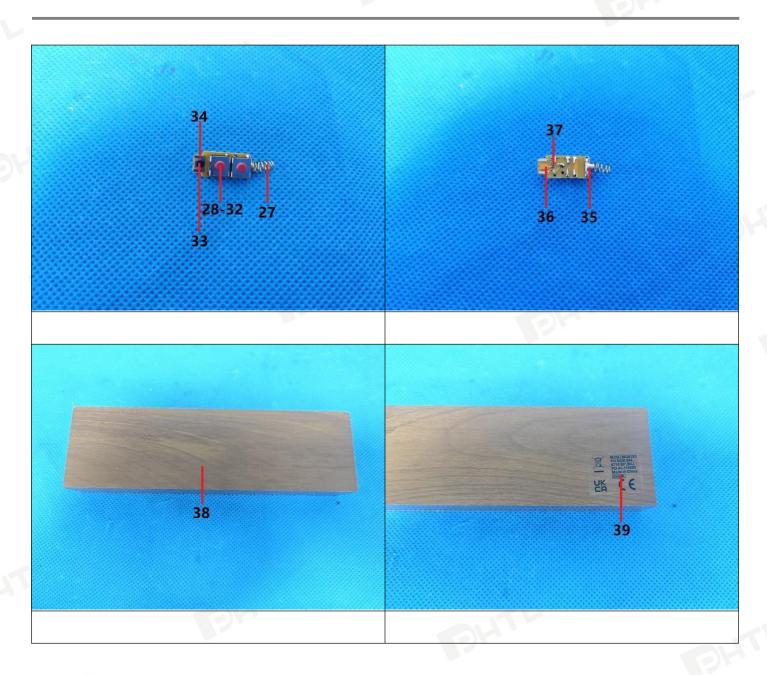


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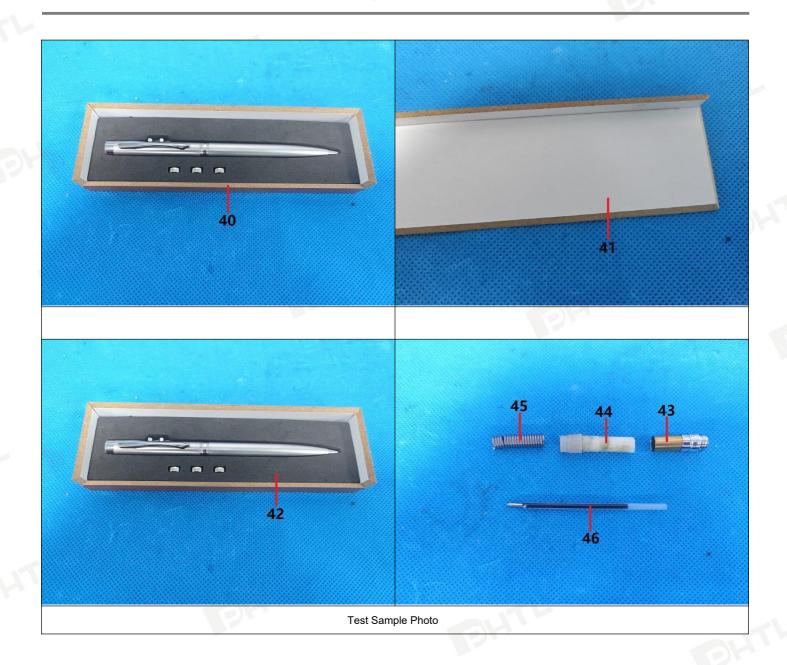


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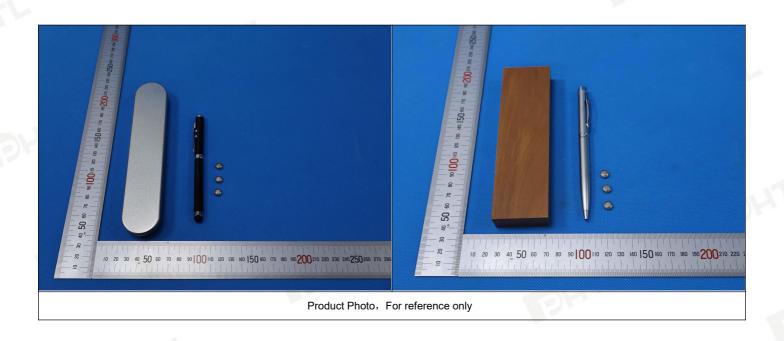


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