



Test Report

Report No.: LST25090061EN

Date: Sep. 08, 2025

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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

Sample Name: Long lasting inkless pen

Style No.: MO2354

Manufacturer Name: 108694

Country of Origin: China

The above information were submitted and identified by/on behalf of the applicant.

Sample Receiving Date: Sep. 02, 2025

Testing Period: Sep. 02, 2025 to Sep. 04, 2025

Summary of Test Result(s):

No.	Test Sample	Test Requested	Result(s)
1	Tested materials of submitted samples	Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 & (EU) No 2015/628 - Lead content	PASS
2	Tested materials of submitted samples	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & commission regulation(EU) No.494/2011 & amended (EU) No. 835/2012 & (EU) No 217/2016 - Cadmium content	PASS
3	Tested materials of submitted samples	Annex XVII items 51&52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009&(EU) 2018/2005 - Phthalates content	PASS
4	Tested materials of submitted samples	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic Aromatic Hydrocarbons (PAHs) content	PASS

*****FOR FURTHER DETAILS,PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Signed for and on behalf of LST

Rory / Technical Manager

Zhejiang Lisen Testing Technology Co., Ltd.

Address:5 Floor, Building 13, Yiwu Science&Technology Park
No.968 Xuefeng West Road, Yiwu, Zhejiang, China

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Sample Description

Material No.	Component Description	Samples / Components
01	Silvery metal	Substrate of barrel
02	White paint	Coating of barrel
03	White translucence plastic	Cap
04	Black-lead	Nib
05	Golden plating metal	Nib base

Photo of sample



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Test Result(s):

Annex XVII items 63 of the REACH – Lead content

Method: With reference to IEC 62321-5:2013, analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
01	500	16	PASS
02	500	N.D.	PASS
03	500	N.D.	PASS
04	500	N.D.	PASS
05	500	57	PASS

Note:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 10 mg/kg.

Annex XVII items 23 of the REACH - Cadmium content

Method: With reference to EN 1122:2001 method B, analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
02	1000	N.D.	PASS
03	100	N.D.	PASS

Note:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 5 mg/kg.

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Annex XVII items 51&52 of the REACH - Phthalates

Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	SUM	DNOP	DIDP	DINP	SUM	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	--	117-84-0	68515-49-1	68515-48-0	--	
Limit (mg/kg)	--	--	--	--	1000	--	--	--	1000	
RL (mg/kg)	50	50	50	50	--	50	100	100	--	
Material No.	Result (mg/kg)									
02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

Note:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

Annex XVII items 50 of the REACH - Polycyclic Aromatic Hydrocarbons (PAHs)

Method: With reference to AfPS GS 2019:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)	
		I	II	III	02	03
Benzo[a]anthracene(BaA)	56-55-3	--	1	0.5	N.D.	N.D.
Chrysene (CHR)	218-01-9	--	1	0.5	N.D.	N.D.
Benzo[b]fluoranthene(BbFA)	205-99-2	--	1	0.5	N.D.	N.D.
Benzo[k]fluoranthene(BkFA)	207-08-9	--	1	0.5	N.D.	N.D.
Benzo[a]pyrene(BaP)	50-32-8	1	1	0.5	N.D.	N.D.
Dibenzo[a,h]anthracene(DBAhA)	53-70-3	--	1	0.5	N.D.	N.D.
Benzo[e]pyrene(BeP)	192-97-2	--	1	0.5	N.D.	N.D.
Benzo[<i>jj</i>]fluoranthene(BjFA)	205-82-3	--	1	0.5	N.D.	N.D.
SUM		10	--	--	N.D.	N.D.
Conclusion					PASS	PASS

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Note:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (<RL).
3. RL (Reporting Limit) = 0.2 mg/kg.
4. "--" = Not Regulated.
5. Product Class:

I = Extender oils.

II = Rubber or plastic components 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.

III = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components 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.

End of Report

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