

TEST REPORT

Report No.: DPHTL2511053053E

Date: Nov 12,2025

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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

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

Sample Name: Zippered pencil case**Model:** MO2783**Vendor code :** 107978**Receiving Date:** Nov 5,2025**Test Period:** From Nov 5,2025 to Nov 10,2025**Add Information:** -**Test Summary:**

#	Test item(s)	Conclusion
1	Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 Polycyclic-aromatic hydrocarbons (PAHs) content	PASS
2	Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 Cadmium content	PASS
3	Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP 、DNOP)	PASS
4	Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 Total Lead content	PASS
5	Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013 Azo colorants content	PASS
6	ISO 105-X12:2016 - Colour Fastness to Rubbing	PASS

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

Authorized Signatory

Mark Mai
(Technical Director)

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Result:

1. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013
 AfPS-GS-2019-01:PAK, determined by GC-MS

Test Item(s)	Results	Limit (mg/kg)	MDL (mg/kg)
	category I ^{*1}		
	2		
1 Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	1	0.2
2 Chrysene(CHR) CAS#218-01-9	N.D.	1	0.2
3 Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	1	0.2
4 Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	1	0.2
5 Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	1	0.2
6 Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	1	0.2
7 Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	1	0.2
8 Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	1	0.2
- Conclusion	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram

(b) MDL: Method detected limit

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

*1: Result category

Category I: 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.

Category II : 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.

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

Test item(s)	Result	Limit (mg/kg)	MDL (mg/kg)
	2		
1 Cadmium (Cd) CAS#7440-43-9	N.D.	100	10
- Conclusion	PASS	-	-

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

**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**

Test item(s)			Result		Limit (%)	MDL (%)
			2			
1	DBP	Dibutyl Phthalate CAS# 84-74-2		N.D.	0.1	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7		N.D.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7		N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5		N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0		N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0/68515-48-0		N.D.	-	0.010
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0		N.D.	-	0.010
-	Sum of 1, 2, 3 & 4			N.D.	0.1	-
-	Sum of 5, 6 & 7			N.D.	0.1	-
-	Conclusion			PASS	-	-

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

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

Test item(s)		Result						Limit (mg/kg)	MDL (mg/kg)
		1	2	3	4	5	6		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	15	74	500	10
-	Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	-	-

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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**5. Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013
ISO 14362-1:2017& ISO 14362-3:2017, determined by GC-MS and HPLC**

Test Item(s)	Result			Limit (mg/kg)	MDL (mg/kg)
	1	3	4		
1 Biphenyl-4-ylamine/4-aminobiphenyl/Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	30	5
2 Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	30	5
3 4-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	30	5
4 2-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	30	5
5 o-aminoazotoluene/4-o-tolyazao-o-toluidine /4-amino-2',3-dimethylazobenzene* CAS#97-56-3	N.D.	N.D.	N.D.	30	5
6 5-nitro-o-toluidine/2-amino-4-nitrotoluol* CAS#99-55-8	N.D.	N.D.	N.D.	30	5
7 4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	30	5
8 4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	30	5
9 4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	30	5
10 3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	30	5
11 3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	30	5
12 3,3'-dimethylbenzidine/4,4'-bi-o-toluidine CAS#119-93-7	N.D.	N.D.	N.D.	30	5
13 4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	30	5
14 6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	30	5
15 4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	30	5
16 4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	30	5
17 4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	30	5
18 o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	30	5
19 2,4-diaminotoluene/2,4-toluylenediamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	30	5
20 2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	30	5
21 o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	30	5

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22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	30	5
-	Conclusion	PASS	PASS	PASS	-	-

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

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

(c) MDL: Method detected limit

*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

**: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylenediamine (CAS No. 106-50-3). Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.

6. ISO 105-X12:2016 - Colour Fastness to Rubbing(Minimum requirement(Grade): Dry $\geq 2\cdot 3$, Wet $\geq 2\cdot 3$)

Test Item(s)	Result(s)			Requirement
	1	3	4	
Staining-Dry(Grade)	4-5	4	4	$\geq 2\cdot 3$
Staining-Wet(Grade)	4-5	4-5	4-5	$\geq 2\cdot 3$
Conclusion	PASS	PASS	PASS	/

Remark(s): Grey Scale Rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

Material List:

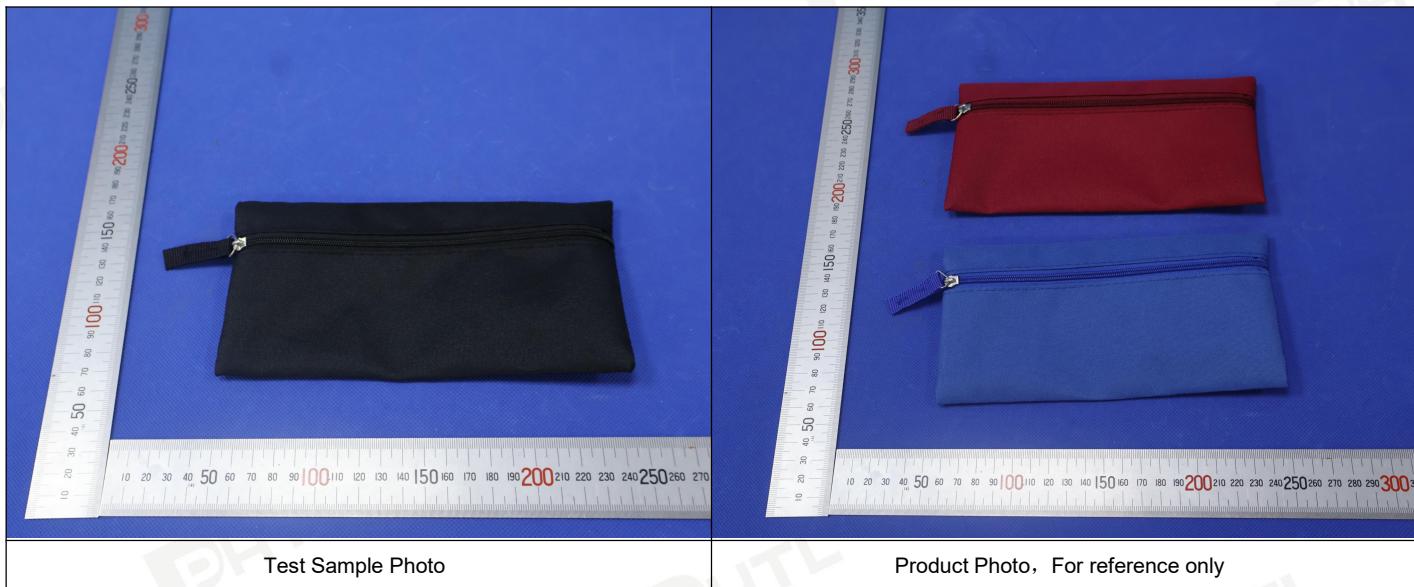
Material #	Sample Description / Position
1	Black fabric,bag
2	Bright black plastic,zipper teeth
3	Matt black textile,zipper tape
4	Black textile,band
5	Silvery metal,D-ring
6	Silvery metal,zipper slider

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Photo(s):**<<< << END OF REPORT >> >>**

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