

# Test Report

Report No.: RKEYS251224265R01

Date: Jan. 30, 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:** Torch

**Sample Model:** MO2786

**Series Model:** MO2991

**Sample Received Date:** Dec. 24, 2025

**Testing Period:** Dec.24, 2025 to Jan. 14, 2026

## Test Requested

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

\*\*\*\*\*

Remark: This test report replaces test report No.RKEYS251224265 released on Jan.16, 2026 as the current valid report, the original test report is void.

## Approved by:



Johnny Chen/Technical Manager



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**Guangdong KEYS Testing Technology Co., Ltd.**

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Report No.: RKEYS251224265R01

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## Summary of Test Results:

Test Standard	Conclusion
Selected test (s) in the selected parts as requested by client, Annex XVII to REACH and includes all the restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC.	
European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 50 on Polycyclic-aromatic hydrocarbons(PAH) content.	Pass

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## 1. PAHs Content

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
Benzo[a]anthracene (BaA)	mg/kg	0.2	N.D.
Chrysene (CHR)	mg/kg	0.2	N.D.
Benzo[b]fluoranthene (BbF)	mg/kg	0.2	N.D.
Benzo[k]fluoranthene (BkF)	mg/kg	0.2	N.D.
Benzo[a]pyrene (BaP)	mg/kg	0.2	N.D.
Dibenzo[a,h]anthracene (DBA)	mg/kg	0.2	N.D.
Benzo[j]fluoranthene	mg/kg	0.2	N.D.
Benzo[e]pyrene	mg/kg	0.2	N.D.
Sum of PAHs	mg/kg	--	N.D.

Note: 1. mg/kg= ppm

2. N.D.= Not Detected(&lt;MDL)

3. MDL = Method Detection Limit

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## Remark:

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

Parameter (mg/kg)	Category 1	Category 2
	<p>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</p> <p>Such articles include amongst others:</p> <ul style="list-style-type: none"> <li>- sport equipment such as bicycles, golf clubs, racquets.</li> <li>- household utensils, trolleys, walking frames</li> <li>- tools for domestic use</li> <li>- clothing, footwear, gloves and sportswear</li> <li>- watch-straps, wrist-bands, masks, head-bands</li> </ul>	<p>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,</p>
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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**Sample Description:**

No.	Description
1	Black plastic fixation
2	Sky blue soft plastic button
3	Black plastic hanging rope fixation

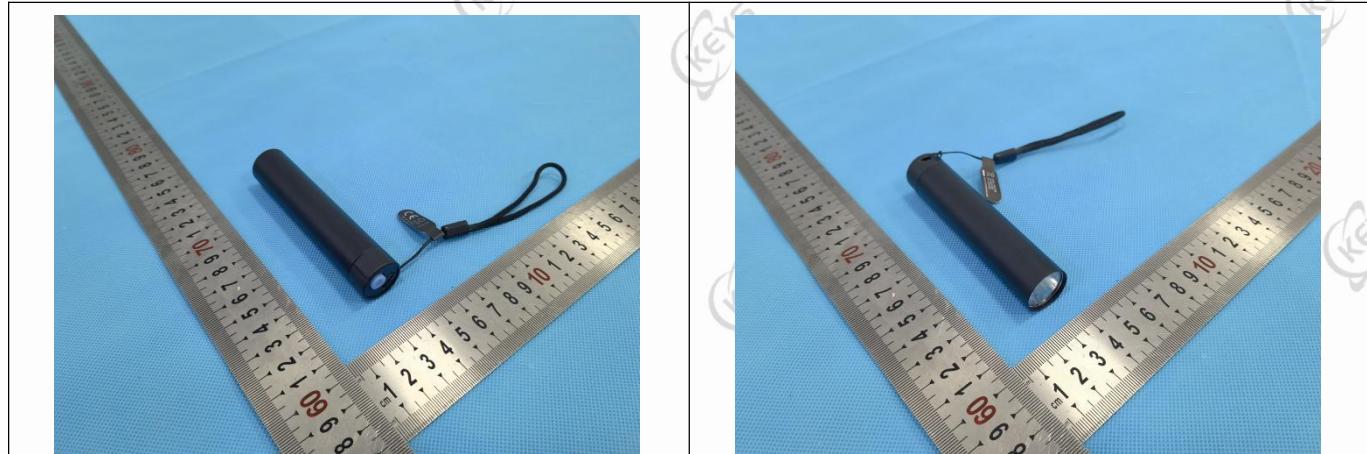
**Sample Photo:**

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\*\*\* End of Report \*\*\*

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**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:** Torch

**Sample Model:** MO2786

**Series Model:** MO2991

**Sample Received Date:** Dec. 24, 2025

**Testing Period:** Dec.24, 2025 to Jan. 23, 2026

## Test Requested

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

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**Approved by:**



**Johnny Chen/Technical Manager**



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## Summary of Test Results:

Test Standard	Conclusion
Selected test (s) in the selected parts as requested by client, Annex XVII to REACH and includes all the restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC.	
1. Azocolourants and Azodyes content reference to REACH Annex XVII Item No.43 Commission Regulation (EU) 2020/2096	Pass

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**Test Result(s):****1. Azocolourants and Azodyes Content****Test method and Test equipment:**

Test Item	Test Method	Test Equipment
Azocolourants and Azodyes	EN 14362-1:2017	GC-MS

No.	Substances	MDL	Unit	Result	Limit
				1	
1	Biphenyl-4-ylamine/4-aminodiphenyl/xenylamine	5	mg/kg	N.D.	30
2	Benzidine	5	mg/kg	N.D.	30
3	4-chloro-o-toluidine	5	mg/kg	N.D.	30
4	2-naphthylamine	5	mg/kg	N.D.	30
5	o-aminoazotoluene/4-amino-2',3-dimethylazobenzene/4-o-tolylazo-o-toluidine	5	mg/kg	N.D.	30
6	2-amino-4-nitrotoluene/5-nitro-o-toluidine	5	mg/kg	N.D.	30
7	4-chloroaniline	5	mg/kg	N.D.	30
8	4-methoxy-m-phenylenediamine	5	mg/kg	N.D.	30
9	4,4'-methylenedianiline/4,4'-diaminodiphenylmethane	5	mg/kg	N.D.	30
10	3,3'-dichlorobenzidine/3,3'-dichlorobiphenyl-4,4'-ylenediamine	5	mg/kg	N.D.	30
11	3,3'-dimethoxybenzidine/o-dianisidine	5	mg/kg	N.D.	30
12	3,3'-dimethylbenzidine/4,4-bi-o-toluidine	5	mg/kg	N.D.	30
13	4,4'-methylenedi-o-toluidine	5	mg/kg	N.D.	30
14	6-methoxy-m-toluidine/p-cresidine	5	mg/kg	N.D.	30
15	4,4'-methylene-bis-(2-chloroaniline)/2,2'-dichloro-	5	mg/kg	N.D.	30

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No.	Substances	MDL	Unit	Result	Limit
				1	
	4,4-methylene-dianiline				
16	4,4'-oxydianiline	5	mg/kg	N.D.	30
17	4,4'-thiodianiline	5	mg/kg	N.D.	30
18	o-toluidine/2-aminotoluene	5	mg/kg	N.D.	30
19	4-methyl-m-phenylenediamine/2,4-toluylenediamine	5	mg/kg	N.D.	30
20	2,4,5-trimethylaniline	5	mg/kg	N.D.	30
21	o-anisidine/2-methoxyaniline	5	mg/kg	N.D.	30
22	4-aminoazobenzene	5	mg/kg	N.D.	30
23	2,4-xylidine	5	mg/kg	N.D.	30
24	2,6-xylidine	5	mg/kg	N.D.	30

No.	Substances	MDL	Unit	Result	Limit
				2	
1	Biphenyl-4-ylamine/4-aminodiphenyl/xenylamine	5	mg/kg	N.D.	30
2	Benzidine	5	mg/kg	N.D.	30
3	4-chloro-o-toluidine	5	mg/kg	N.D.	30
4	2-naphthylamine	5	mg/kg	N.D.	30
5	o-aminoazotoluene/4-amino-2',3-dimethylazobenzene/4-o-tolylazo-o-toluidine	5	mg/kg	N.D.	30
6	2-amino-4-nitrotoluene/5-nitro-o-toluidine	5	mg/kg	N.D.	30
7	4-chloroaniline	5	mg/kg	N.D.	30
8	4-methoxy-m-phenylenediamine	5	mg/kg	N.D.	30
9	4,4'-methylenedianiline/	5	mg/kg	N.D.	30

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No.	Substances	MDL	Unit	Result	Limit
				2	
	4,4'-diaminodiphenylmethane				
10	3,3'-dichlorobenzidine/3,3'-dichlorobiphenyl-4,4'-ylenediamine	5	mg/kg	N.D.	30
11	3,3'-dimethoxybenzidine/o-dianisidine	5	mg/kg	N.D.	30
12	3,3'-dimethylbenzidine/4,4-bi-o-toluidine	5	mg/kg	N.D.	30
13	4,4'-methylenedi-o-toluidine	5	mg/kg	N.D.	30
14	6-methoxy-m-toluidine/p-cresidine	5	mg/kg	N.D.	30
15	4,4'-methylene-bis-(2-chloroaniline)/2,2'-dichloro-4,4-methylene-dianiline	5	mg/kg	N.D.	30
16	4,4'-oxydianiline	5	mg/kg	N.D.	30
17	4,4'-thiodianiline	5	mg/kg	N.D.	30
18	o-toluidine/2-aminotoluene	5	mg/kg	N.D.	30
19	4-methyl-m-phenylenediamine/2,4-toluylenediamine	5	mg/kg	N.D.	30
20	2,4,5-trimethylaniline	5	mg/kg	N.D.	30
21	o-anisidine/2-methoxyaniline	5	mg/kg	N.D.	30
22	4-aminoazobenzene	5	mg/kg	N.D.	30
23	2,4-xylidine	5	mg/kg	N.D.	30
24	2,6-xylidine	5	mg/kg	N.D.	30

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**Sample Description:**

No.	Description
1	Black woven rope (thin)
2	Black woven hanging rope

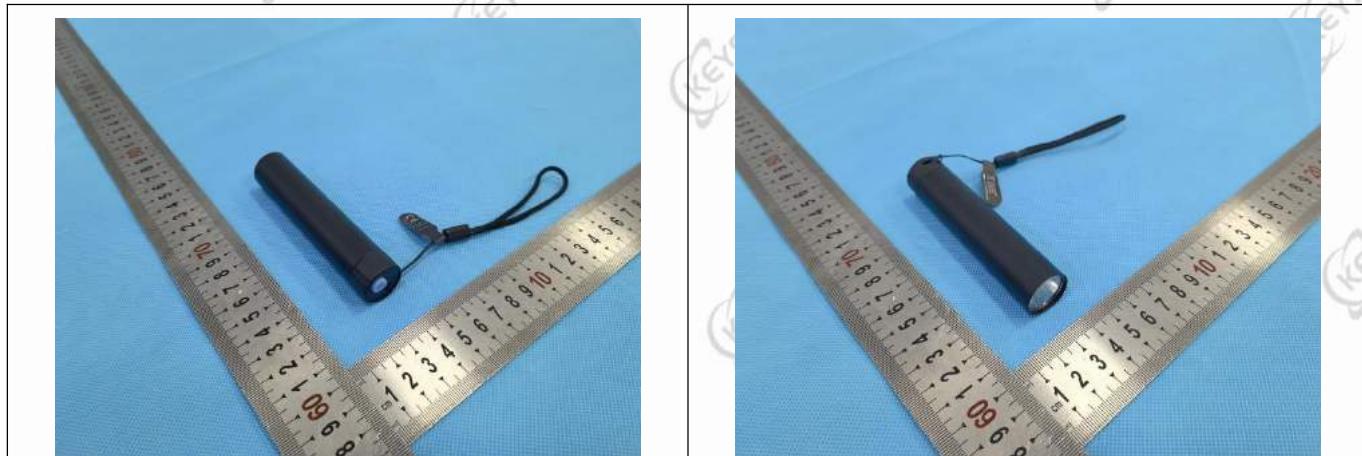
**Sample Photo:**

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## Summary of Test Results:

	Test Standard	Conclusion
1	As specified by client, to determine the Colour Fastness to Rubbing in the submitted sample(s) in accordance with ISO 105-X12:2016.	Pass

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## Test method and Test equipment:

### 1. Colour Fastness to Rubbing

Test Method: ISO 105-X12:2016, Size of Rubbing Finger: Circular 16 mm Diameter.

Material No.	Test Item		Results(Grade)	Client's Requirement (Min. Grade)	Conclusion
1	Dry	Length	4-5	2-3	Pass
		Width	-	-	
	Wet	Length	4-5	2-3	
		Width	-	-	

Material No.	Test Item		Results(Grade)	Client's Requirement (Min. Grade)	Conclusion
2	Dry	Length	4-5	2-3	Pass
		Width	-	-	
	Wet	Length	4-5	2-3	
		Width	-	-	

### Notes:

### Explanation of Colorfastness Results

- Grade 5 Negligible or No Change or Staining
- Grade 4 Slightly Changed or Stained
- Grade 3 Noticeably Changed or Stained
- Grade 2 Considerably Changed or Stained
- Grade 1 Much Changed or Heavily Stained

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1	Black woven rope (thin)
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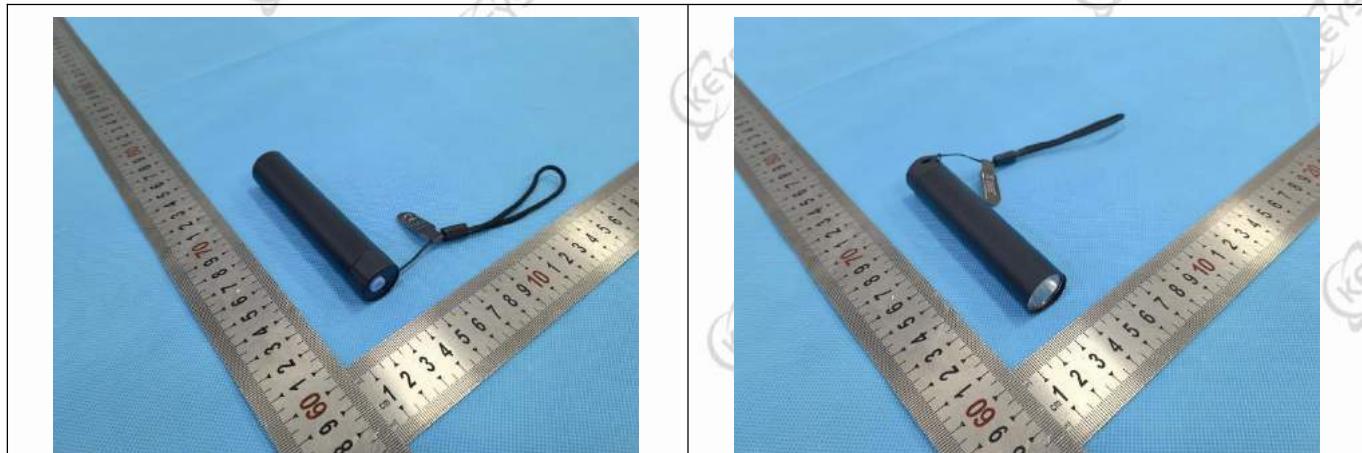
**Sample Photo:**

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