

# Test Report

Report No.: RKEYS250901717

Date: Sep. 16, 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

**Manufacturer:** 117486

**Address:** /

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

**Sample Name:** Wireless Speaker

**Sample Model:** MO9806

**Sample Received Date:** Sep. 01, 2025

**Testing Period:** Sep. 01, 2025 to Sep. 05, 2025

**Test Requested:**

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

\*\*\*\*\*

**Approved by:**



**Tony Qian/ Technical Manager**



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

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Tel: +86-0769-22221088 <http://www.keys-lab.com> E-mail: [info@keys-lab.com](mailto:info@keys-lab.com)

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## Summary of Test Results:

Test Standard		Conclusion
1	Textiles- Methods for determination of certain aromatic amines derived from azo colorants Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres (ISO 14362-1:2017)	Pass

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## Test Result:

### (1) Test method and Test equipment :

Test Item	Test Method	Test Equipment
AZO	EN ISO 14362-1:2017	GC-MS

No.	Substances	Unit	MDL	Limit	Test Result
					1
1	Biphenyl-4-ylamine/4-aminodiphenyl/xenylamine	mg/kg	5	30	N.D.
2	Benzidine	mg/kg	5	30	N.D.
3	4-chloro-o-toluidine	mg/kg	5	30	N.D.
4	2-naphthylamine	mg/kg	5	30	N.D.
5	o-aminoazotoluene/4-amino-2',3-dimethylazobenzene/4-o-tolylazo-o-toluidine*	mg/kg	5	30	N.D.
6	2-amino-4-nitrotoluene/5-nitro-o-toluidine*	mg/kg	5	30	N.D.
7	4-chloroaniline	mg/kg	5	30	N.D.
8	4-methoxy-m-phenylenediamine	mg/kg	5	30	N.D.
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane	mg/kg	5	30	N.D.
10	3,3'-dichlorobenzidine/3,3'-dichlorobiphenyl-4,4'-ylenediamine	mg/kg	5	30	N.D.
11	3,3'-dimethoxybenzidine/o-dianisidine	mg/kg	5	30	N.D.
12	3,3'-dimethylbenzidine/4,4-bi-o-toluidine	mg/kg	5	30	N.D.
13	4,4'-methylenedi-o-toluidine	mg/kg	5	30	N.D.
14	6-methoxy-m-toluidine/p-cresidine	mg/kg	5	30	N.D.
15	4,4'-methylene-bis-(2-chloroaniline)/2,2'-dichloro-4,4-methylene-dianiline	mg/kg	5	30	N.D.
16	4,4'-oxydianiline	mg/kg	5	30	N.D.
17	4,4'-thiodianiline	mg/kg	5	30	N.D.
18	o-toluidine/2-aminotoluene	mg/kg	5	30	N.D.
19	4-methyl-m-phenylenediamine/2,4-toluidinediamine	mg/kg	5	30	N.D.

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No.	Substances	Unit	MDL	Limit	Test Result
					1
20	2,4,5-trimethylaniline	mg/kg	5	30	N.D.
21	o-anisidine/2-methoxyaniline	mg/kg	5	30	N.D.
22	4-aminoazobenzene**	mg/kg	5	30	N.D.
23	2,4-xylydine	mg/kg	5	30	N.D.
24	2,6-xylydine	mg/kg	5	30	N.D.

## Note:

- 1. mg/kg = ppm
- 2. N.D.= Not Detected (<MDL)
- 3. MDL = Method Detection Limit
- 4. \* = 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).
- 5. \*\* = 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



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## Sample Description:

No.	Description
1	Black handle

## Sample photo:



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

# Test Report

Report No.: RKEYS250901716

Date: Sep. 16, 2025

Page 1 of 4

**Applicant:** Mid Ocean Brands B.V.

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**Manufacturer:** 117486

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**Sample Received Date:** Sep. 01, 2025

**Testing Period:** Sep. 01, 2025 to Sep. 05, 2025

**Test Requested:**

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

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**Approved by:**



**Tony Qian/ Technical Manager**



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# Test Report

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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 Result:

### (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	-	-	

## 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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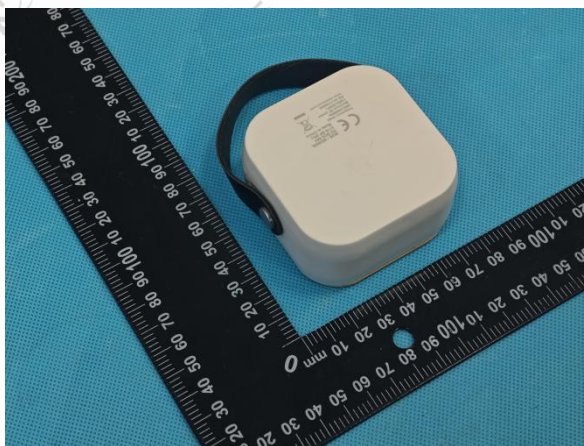
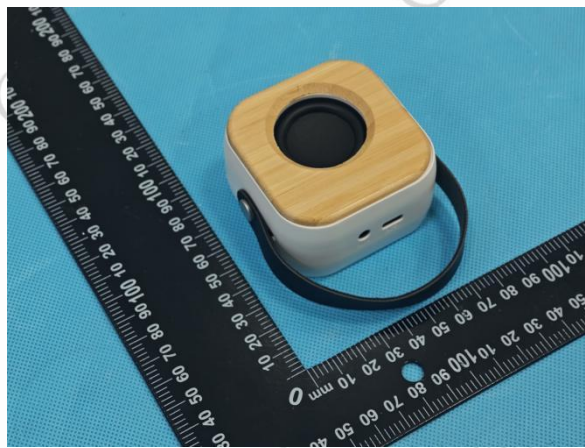
Date: Sep. 16, 2025

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## Sample Description:

No.	Description
1	Black handle

## Sample photo:



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



# Test Report

Report No.: RKEYS250901350

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**Applicant:** Mid Ocean Brands B.V.

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**Approved by:**

*Tony Qian*

**Tony Qian/ Technical Manager**



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Report No.: RKEYS250901350

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## Summary of Test Results:

Test Standard		Conclusion
1	Pentachlorophenol(PCP) Content-European Regulation POPs(EU)2019/1021	Pass
2	Annex XVII of the REACH Regulation (EC) No 1907/2006,entry 77-Formaldehyde Release	Pass

# Test Report

Report No.: RKEYS250901350

Date: Sep. 15, 2025

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## Test Result:

### 1. Pentachlorophenol (PCP) Content-European Regulation POPs (EU) 2019/1021 Annex I and its amendments

Test Method:US EPA 3550C:2007, analyzed by Gas Chromatography and Mass Spectrometry (GC-MS)

Test Item(s)	MDL (mg/kg)	Limit (mg/kg)	Test Result (mg/kg)
			1
Pentachlorophenol (PCP)	0.5	5	N.D.

- Note:**
1. mg/kg=Milligrams per kilogram
  2. N.D.= Not Detected(<MDL)
  3. MDL = Method Detection Limit

### 2. Formaldehyde Release- REACH Annex XVII

Test Item	Test Method	Test Equipment
Formaldehyde Release	With reference to ISO 14184-1:2011	UV-Vis

Tested Item(s)	MDL (mg/m <sup>3</sup> )	Limit (mg/m <sup>3</sup> )	Test Result (mg/m <sup>3</sup> )
			1
Formaldehyde Release	0.01	0.062	N.D.

- Note:**
1. mg/m<sup>3</sup>=Milligrams per cubic meter
  2. N.D.= Not Detected(<MDL)
  3. MDL = Method Detection Limit



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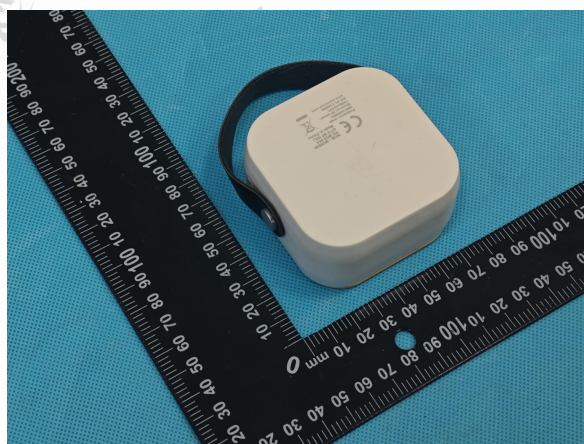
Date: Sep. 15, 2025

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## Sample Description:

No.	Description
1	Yellow bamboo shell

## Sample Photo:



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



# Test Report

Report No.: RKEYS250901351

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**Applicant:** Mid Ocean Brands B.V.

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**Testing Period:** Sep. 01, 2025 to Sep. 05, 2025

**Test Requested:**

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**Approved by:**



**Tony Qian/ 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	European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 50 on Polycyclic-aromatic hydrocarbons(PAH) content.	Pass

# Test Report

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## Test Result:

### (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
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.

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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

- Note:**
1. mg/kg= ppm
  2. N.D.= Not Detected(<MDL)
  3. MDL = Method Detection Limit

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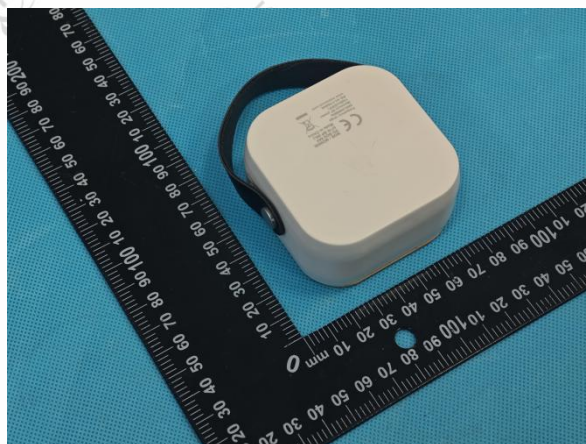
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## Sample Description:

No.	Description
1	Black handle

## Sample photo:



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