

TEST REPORT

<u>Applicant</u>	: Mid Ocean Hong Kong Ltd.
<u>Address</u>	: Unit 711-716, 7/F., Tower A, 83 King Lam Street Cheung Sha Wan, Kowloon, Hong Kong
<u>Sample description</u>	: Manual Hand Fan (MO9532); Rainbow wooden hand fan (MO6446)
<u>Item no.</u>	: MO9532; MO6446
<u>Vendor code</u>	: 111034
<u>Sample received date</u>	: 22-May-2026
<u>Further information date</u>	: 29-Jun-2026
<u>Turn around time</u>	: 22-May-2026 To 29-Jun-2026

The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Pentachlorophenol (PCP) Content	Regulation (EU) 2019/1021	Pass
Nickel Release	REACH Annex XVII, Entry 27	Pass
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass
Colour Fastness to Rubbing	EN ISO 105-X12:2016	Pass
Formaldehyde Release	REACH Annex XVII, Entry 77	Pass

Eurofins (Shanghai) contact information**Customer service:** Winnie.Dong@cpt.eurofinscn.com**Sales specialist:** Lily.Li@cpt.eurofinscn.com+86-021-23509600

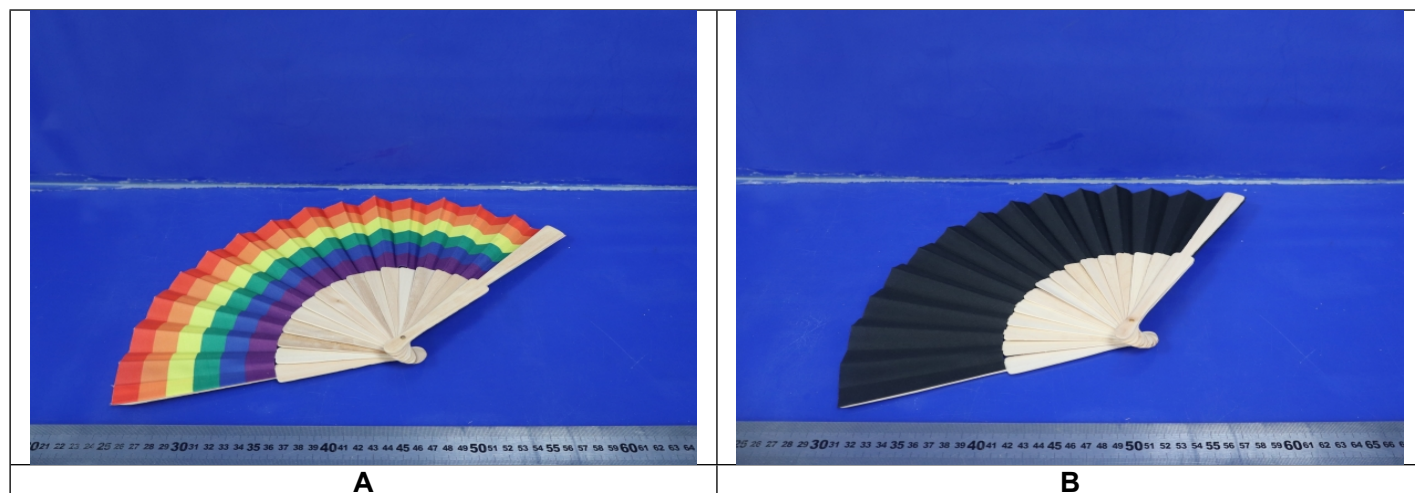
***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins MTS Consumer Product Testing (Shanghai)
Co., Ltd.



Linda Jin
Chemical Division Assistant Manager

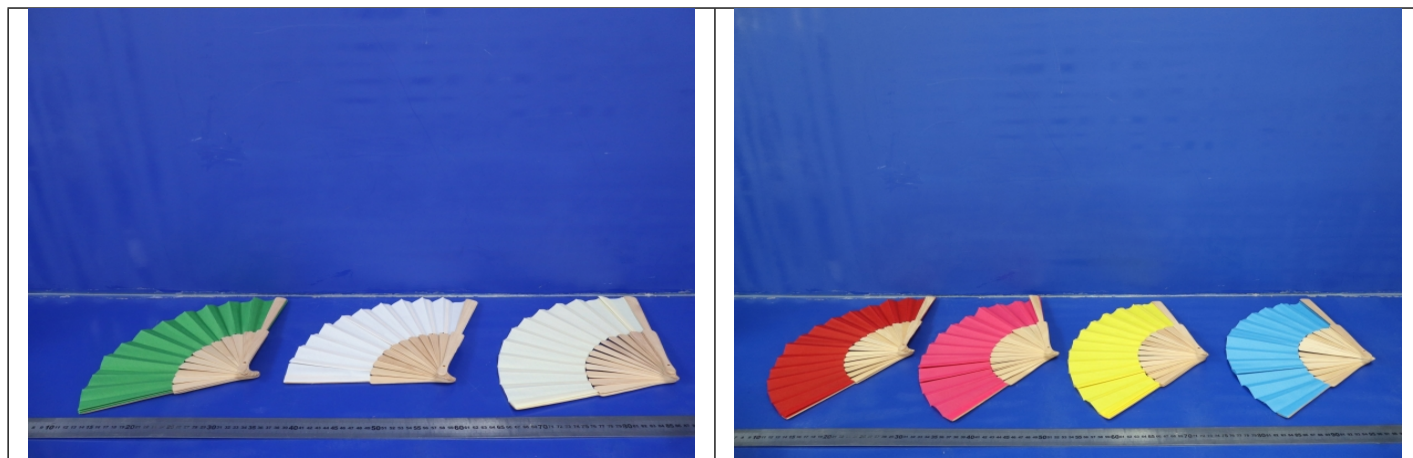
SAMPLE PHOTO(S)



EFW526055275-CG-01

TO BE CONTINUED

REFERENCE SAMPLE PHOTO(S)



The reference samples have not been tested in current report, but according to customer's request, the pictures have also been included. For sample tested in current report, please refer to "Sample photo".

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Red fabric	A
2	Orange fabric	A
3	Yellow fabric	A
4	Green fabric	A
5	Blue fabric	A
6	Purple fabric	A
7	Black fabric	B
8	Multi-color fabric	A
9	Natural color wood	A,B
10	Gold coated metal	A,B

TO BE CONTINUED

TEST RESULT

Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol and its salts and esters as specified in Regulation (EU) 2019/1021 of the European Parliament and of the Council on persistent organic pollutants as regards Annex I Part A.

Test Method: With reference to EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					9
Pentachlorophenol (PCP)	87-86-5	mg/kg	5	0.5	ND

Remarks:

As per client's request, only the appointed materials have been tested.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Nickel Release

Test Request: Nickel release as specified in regulation (EC) No 552/2009 amending entry 27 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 1811:2023 with EN 12472:2020 used priorly for coated articles.

Test Item(s)	Unit	MDL	Test Result (*)
			10
Nickel Release-Trial 1	$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	0.1	0.13
Nickel Release-Trial 2	$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	0.1	ND
Nickel Release-Trial 3	$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	0.1	ND

Note:

MDL = method detection limit

ND = not detected, less than MDL.

$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$ =micrograms per square centimetre per week

Articles with non-nickel coating were tested according to EN 12472:2005+A1:2009, and followed by EN 1181:2023.

Remark:

- For materials and articles coming into direct and prolonged contact with the skin the migration limit is $0.5\ \mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$. According to EN 1811:2023, considering the combined measurement uncertainty of the method, these materials/articles shall be accepted and be permitted to be placed on the market if the measured nickel release value is less or equal to $0.88\ \mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$.

Limit ($\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$)	Test result ($\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$)	Conclusion according to EN1811:2023
0.5	≤ 0.88	Pass
	> 0.88	Fail

- For materials and articles which are inserted into pierced ears or other pierced parts of human body the migration limit is $0.2\ \mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$. According to EN 1811:2023, considering the combined measurement uncertainty of the method, these materials/articles shall be accepted and be permitted to be placed on the market if the measured nickel release value is less than $0.35\ \mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$.

Limit ($\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$)	Test result ($\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$)	Conclusion according to EN1811:2023
0.2	< 0.35	Pass
	≥ 0.35	Fail

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN ISO 14362-1:2017, sample preparation according to Annex E4.2 and Annex E4.3.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					1+2+3	4+5+6	7
4-methyl-m-phenylenediamine	95-80-7	mg/kg	30	5	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	30	5	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	30	5	ND	ND	ND
o-Toluidine	95-53-4	mg/kg	30	5	ND	ND	ND
5-Nitro-o-toluidine (Note 1)	99-55-8	mg/kg	30	5	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	ND
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	ND
n.d.3,3'-Dimethybenzidine	119-93-7	mg/kg	30	5	ND	ND	ND
4-Amino-azobenzene (Note 2)	60-09-3	mg/kg	30	5	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	ND

Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.

Note 2: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine.

MDL = method detection limit ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996, acid digestion/ microwave digestion method was used, analysis was performed by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				1+2+3	4+5+6	7	9
Lead (Pb)	mg/kg	500	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				10			
Lead (Pb)	mg/kg	500	10	18			

Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Colour Fastness to Rubbing

EN ISO 105-X12:2016

	(7)	(8)	Requirement:
Lengthwise Dry Colour Stain	4	4-5	Grade 2-3
Lengthwise Wet Colour Stain	4	4-5	Grade 2-3
Widthwise Dry Colour Stain	4	/	Grade 2-3
Widthwise Wet Colour Stain	4	/	Grade 2-3

Grey Scale for Assessing Colour Change/Staining

Grade 5 Negligible or no change/staining

Grade 4 Slightly changed/stained

Grade 3 Noticeably changed/stained

Grade 2 Considerably changed/stained

Grade 1 Much changed/stained

TO BE CONTINUED

TEST RESULT

Formaldehyde Release

Test Request: Formaldehyde content as specified in entry 77 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendments.

Test Method: EN 717-1:2004, emission of formaldehyde (Chamber method).
Chamber Volume: 225L; Test Duration: 10 day; Temperature: 23°C; Humidity: 45%.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					9
Formaldehyde Release	50-00-0	mg/m ³	0.062	0.04	ND

Remark:

1mg/m³=0.81ppm=0.81ml/m³

MDL = method detection limit

ND = Not detected, less than MDL

The test item(s) was/were subcontracted to Eurofins internal lab.

This test report is governed by the Terms and Conditions, available on request or accessible at <https://www.eurofins.cn/consumer-product-testing/general-terms/>. Attention is especially drawn to the limitations of liability, indemnification and jurisdictional provisions defined therein. This report is issued strictly based on the testing of the samples submitted by you. The test results in this report refer only to the sample(s) actually tested and do not refer or be deemed to refer to any bulk production from which such sample(s) may be said to have been obtained. In the event that Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd. ("ERF") was requested to survey and test any bulk production quantity of samples, ERF, in the absence of any contrary written instructions, performed random sampling of bulk production for testing purposes. Variations in the conditions under which samples are stored, transported, etc., may lead to variations in the test results. ERF cannot anticipate and shall not be held responsible for variations in test results that may be due to factors beyond ERF's control, such as, sample cross-contamination, evaporation of volatile substances due to storage temperature, humidity, etc. This report does not constitute a recommendation, actual or implied, for any specific course of action. Other than the expressed warranties made in the Terms and Conditions of the ERF Test Request Form, ERF makes no warranties or representations either express or implied with respect to this report. In no circumstances whatsoever shall ERF be liable for any consequential, special or incidental damages arising out of, or in connection with, this report. This document shall not be reproduced except in full unless prior written authorization from ERF has been attained. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will apply it in accordance with ILAC G8:09/2019 (binary statement for simple acceptance rule) and shared risk decision rule. If you happen to have any complaints, please do it by sending email to info.shmts@cpt.eurofinscn.com and referring to this report number. As per regulation of China Metrology Accreditation (CMA), a report without CMA accreditation logo will not serve as testimonial to the public for the purpose defined by CMA regulations.

END OF THE REPORT