

TEST REPORT

APPLICANT : Mid Ocean Hong Kong Ltd.

ADDRESS : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

SAMPLE DESCRIPTION : Manual hand fan in wood

ITEM NO. : MO9532

MANUFACTURER : VENDOR CODE:111034

COUNTRY OF ORIGIN : China

SAMPLE RECEIVED DATE : 06-Aug-2021

SAMPLE RESUBMISSION DATE : 18-Aug-2021

TURN AROUND TIME : 06-Aug-2021 to 23-Aug-2021

REVISED DATE : 26-Aug-2021

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

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass
Nickel Release	REACH Annex XVII, Entry 27	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass
Formaldehyde Release	EN 717-3-1996	See Test Result
Colour Fastness to Rubbing	ISO 105-X12:2016	Pass

Note: This report cancels and supersedes report number EFSH21080480-CG-02 issued on Aug 23th, 2021.
Modification description: as per client's request, Update the Colour Fastness to Rubbing test in the revised report.

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.

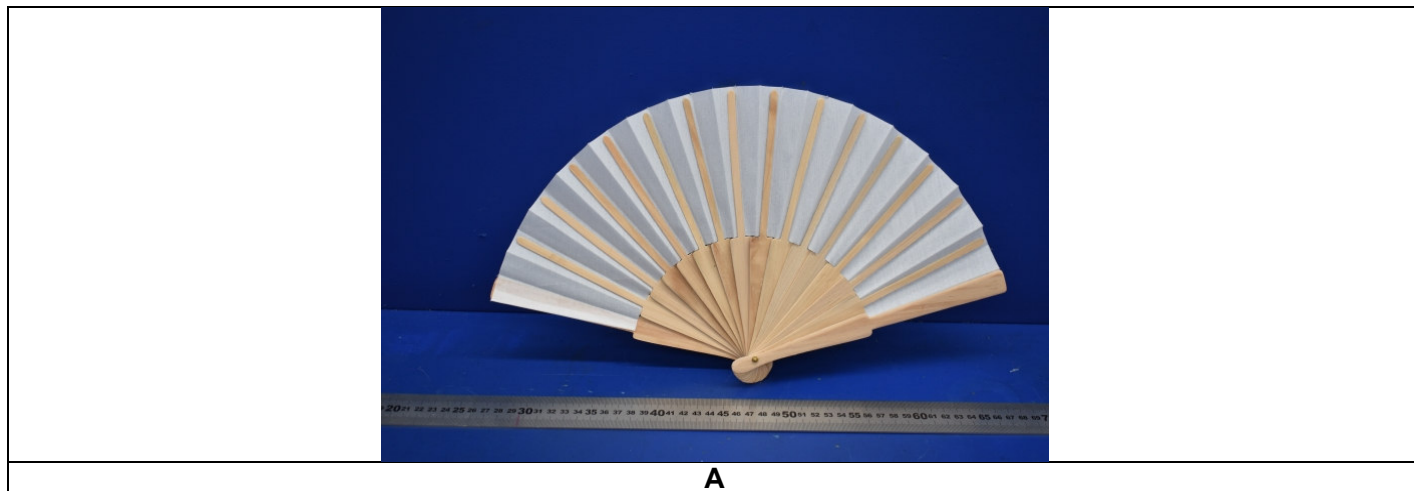
***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

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



Joyce Liu
Lab Manager

TEST SAMPLE PHOTO(S)



EFSH21080480-CG-02

TO BE CONTINUED

REFERENCE SAMPLE PHOTO(S)



The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Golden plated metal	A
2	White fabric	A
3	Natural color wood	A

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

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

Remarks:

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.

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: According to EN1811:2011+A1:2015.

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

Note:

MDL = method detection limit

ND = not detected, less than MDL.

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

Remark:

* For materials and articles coming into direct and prolonged contact with the skin the migration limit is 0.5 $\mu\text{g}/\text{cm}^2/\text{week}$. According to EN 1811:2011+A1:2015, 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 0.88 $\mu\text{g}/\text{cm}^2/\text{week}$.

Limit ($\mu\text{g}/\text{cm}^2/\text{week}$)	Test result ($\mu\text{g}/\text{cm}^2/\text{week}$)	Conclusion according to EN1811:2011+A1:2015
0.5	<0.88	Pass
	≥ 0.88	Fail

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 and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result		
				1	2	3
Total Lead	mg/kg	500	10	ND	ND	ND

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Formaldehyde Release

Test Method: EN 717-3-1996, formaldehyde release was determined by UV-Visible Spectrophotometer (UV-Vis) analysis.

Test Item(s)	Unit	MDL	Result
			3
Formaldehyde Content	mg/kg	5	ND

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL
“-” = Not regulated

Colourfastness to Rubbing

ISO 105-X12:2016

	A
Lengthwise	
Dry	4-5
Wet	4-5
Widthwise	
Dry	4-5
Wet	4-5

Requirement:
Grade 2-3

Grey Scale for Assessing Colour Change/Staining

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 stained

END OF THE REPORT