

TEST REPORT

Reference No.	:	WTF20F12095566C
Applicant	3a	Mid Ocean Brands B.V.
Address	NITE	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	j.	112451
Sample Name	:	Natural straw hat, Coloured polyester hat
Model No.	ç:	MO9341, MO9342
Test Requested	INNE NAL	 Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628 Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under Directive 2002/61/EC). As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.
Test Method	:	Please refer to next page (s)
Test Conclusion	-an	Please refer to next page (s)
Date of Receipt sample		2020-12-10
Date of Test	V.	2020-12-10 to 2020-12-15
Date of Issue	÷	2020-12-15
Test Result	s,	Please refer to next page (s)
Note	: 5	As specified by client, only test the designated sample.

Remarks:

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

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Compiled by:

Rena.Chen / Project Engineer

Approved by:

Swing.Liang / Technical Manager



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Test Result:

1) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	LOQ	Results (mg/kg)				Limit
	(mg/kg)	No.1	No.2+No.3	No.4	No.5+No.6	(mg/kg)
Lead(Pb)	2	ND	ND*	ND	ND*	500
Conclusion	1	Pass	Pass	Pass	Pass	

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected or lower than limit of quantitation
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "*" = Results are calculated by the minimum weight of mixed components.



2) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)	
NO.	Annies Substances			No.2	No.4
104	4-Aminobiphenyl	92-67-1	30	ND	of ND
2	Benzidine	92-87-5	30	ND S	ND
ં ઉ	4-chloro-o-Toluidine	95-69-2	30	ND	ND
4 🚿	2-Naphthylamine	91-59-8	30	ND ND	ND S
5	o-Aminoazotoluene	97-56-3	30	ND A	ND
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	ND
7,0	p-Chloroaniline	106-47-8	30	, ND ∕	Set NDS
8	2,4-diaminoanisol	615-05-4	30 0	ND N	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	30	ND V	ND
11	3,3'-Dimethoxybenzidine	119-90-4	30	NDS	ND
12	3,3'-Dimethylbenzidine	119-93-7	30	ND	ND
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND ND	ND
14	p-cresinin	120-71-8	J 30 J	ND	ND
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND	ND
16	4,4'-Oxydianiline	101-80-4	- 30	ND	ND
17	4,4'-Thiodianiline	139-65-1	30	ND	ND
18	o-Toluidine	95-53-4	30	ND	ND
19	2,4-Toluylendiamine	95-80-7	30	ND	ND
20	2,4,5 – Trimethylaniline	137-17-7	× ⁰ 30 ×	ND	ND
21	o-anisidine	90-04-0	30	ND	ND
22	4-aminoazobenzene	60-09-3	30	ND	ND
23	2,4-Xylidin	95-68-1	30	ND	ND
24	2,6-Xylidin	87-62-7	30	ND	ND
	Conclusion	10- 1	* - 1	Pass	Pass

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No.	Amines Substances	CAS No.	Limit	Result (mg/kg)	
110.			(mg/kg)	No.5	
1	4-Aminobiphenyl	92-67-1	30	ND	
2	Benzidine	92-87-5	30	ND ND	
3	4-chloro-o-Toluidine	95-69-2	30	ND	
4	2-Naphthylamine	91-59-8	<u> </u>	ND	
5	o-Aminoazotoluene	97-56-3	30	ND	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND ND	
7	p-Chloroaniline	106-47-8	30	ND	
8	2,4-diaminoanisol	615-05-4	30	ND ND	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	
10	3,3'-Dichlorobenzidine	91-94-1	30	ND	
11-	3,3'-Dimethoxybenzidine	119-90-4	30	ND-	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND SOND	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	
14	p-cresinin	120-71-8	30	ND ND	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND A	
16	4,4'-Oxydianiline	101-80-4	30	ND	
17	4,4'-Thiodianiline	139-65-1	30	ND ND	
18	o-Toluidine	95-53-4	30	ND ND	
19	2,4-Toluylendiamine	95-80-7	30	ND	
20 🖄	2,4,5 – Trimethylaniline	137-17-7	30	ND	
21	o-anisidine	90-04-0	30	ND	
22	4-aminoazobenzene	60-09-3	30	ND	
23	2,4-Xylidin	95-68-1	30	ND S	
24	2,6-Xylidin	87-62-7	30	ND	
100	Conclusion	,	st- st	Pass	

Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of Quantitation (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006



3) Colour Fastness to Rubbing

Colour Fastness to Rub	bing 🖉 🖉 🖉	and the me	an a t			
(ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.)						
211. 20. 1.	No.4	No.5	Client's Limit			
Dry staining	4-5	4-5	2-3			
Wet staining	4-5	4-5	2-3			
Conclusion	Pass	Pass				

Note:

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

Test Specimen Description:

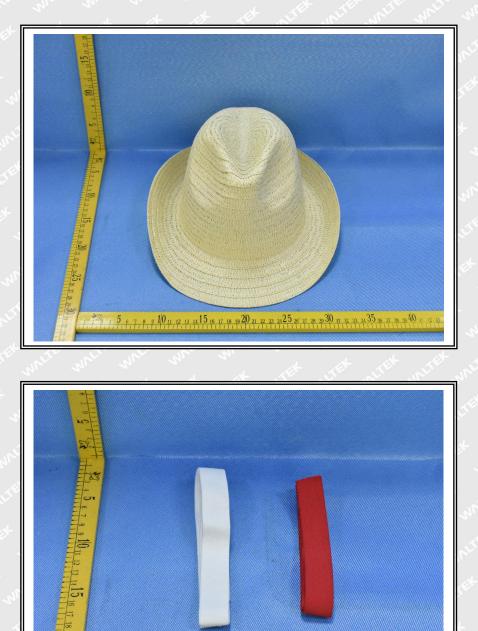
No.1: Beige straw hat No.2: Beige fabric No.3: White fabric No.4: Blue plastic hat No.5: Red elastic band No.6: White elastic band

Sample photo:



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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

13/X 7.6/

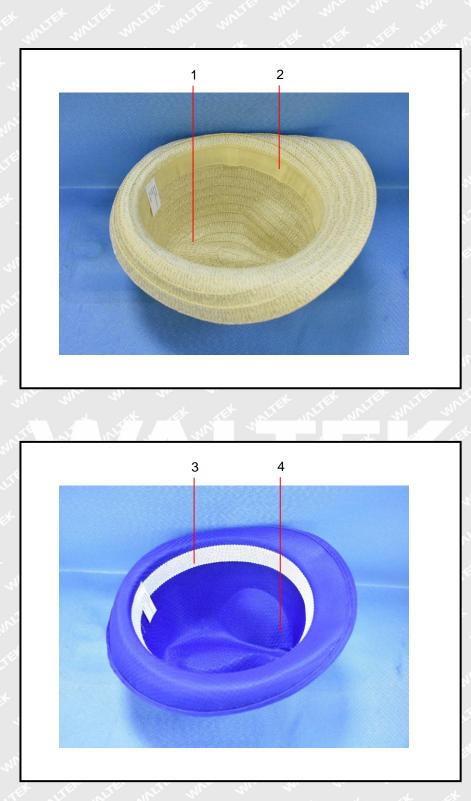
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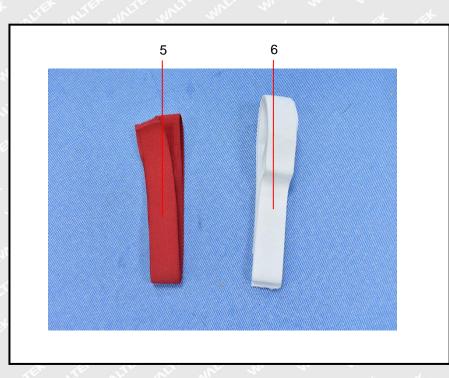
Photographs of parts tested:



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===== End of Report ======

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