

TEST REPORT

Reference No.: WTF21F10113636C

Applicant: Mid Ocean Brands B.V.

Hong Kong

Manufacturer..... 115582

Sample Name: RPET felt keyring

Model No. : MO6508

Test Requested.....: 1) 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).

3) 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 : Please refer to next page (s)

Date of Receipt sample..... : 2021-10-25

Date of Test...... 2021-10-25 to 2021-11-04

Date of Issue : 2021-11-05

Test Result: Please refer to next page (s)

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.

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Reference No.: WTF21F10113636C

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.4	(mg/kg)	
Lead(Pb)	2 / /	ITE ND* W	500	
Conclusion		Pass	. LT LT	

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

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	Result (mg/kg)	
.40.			(mg/kg)	No.1+No.2+No.4	
1.+	4-Aminobiphenyl	92-67-1	30	ND*	
2	Benzidine	92-87-5	30	ND*	
્3	4-chloro-o-Toluidine	95-69-2	30	ND*	
4 🔊	2-Naphthylamine	91-59-8	30	ND*	
5	o-Aminoazotoluene	97-56-3	30	ND*	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*	
7	p-Chloroaniline	106-47-8	30	ND*	
8	2,4-diaminoanisol	615-05-4	30	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*	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*	
14	p-cresinin	120-71-8	30	ND*	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*	
16	4,4'-Oxydianiline	101-80-4	30	ND*	
17	4,4'-Thiodianiline	139-65-1	30	ND*	
18	o-Toluidine	95-53-4	30	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*	
24	2,6-Xylidin	87-62-7	30	ND*	
اله	Conclusion	10- 1	et -cet	Pass	



No.	Amines Substances	CAS No.	Limit	Result (mg/kg)	
140.			(mg/kg)	No.3	
1	4-Aminobiphenyl	92-67-1	30	ND	
2	Benzidine	92-87-5	30	ND	
3	4-chloro-o-Toluidine	95-69-2	30	ND	
4	2-Naphthylamine	91-59-8	30	ND	
5	o-Aminoazotoluene	97-56-3	30	MD ND	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	
7	p-Chloroaniline	106-47-8	30	ND.	
8	2,4-diaminoanisol	615-05-4	30	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 ND	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	MD W	
14	p-cresinin	120-71-8	30	ND	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND W	
16	4,4'-Oxydianiline	101-80-4	30	ND	
17	4,4'-Thiodianiline	139-65-1	30	UND WALL	
18	o-Toluidine	95-53-4	30	ND	
19	2,4-Toluylendiamine	95-80-7	30	MD M	
20	2,4,5 – Trimethylaniline	137-17-7	30	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	JULY ND	
24	2,6-Xylidin	87-62-7	30	ND ND	
× .	Conclusion	- (<u>CE</u>	170 - OLI	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
- "*" = Results are calculated by the minimum weight of mixed components.



3) Colour Fastness to Rubbing

Colour Fastne	ess to Rubbing	JER JER	SUIE WA	10, 1	1. 20.	
(ISO 105-X12:	2016; Size of rubbing	g finger: 16mr	m diameter.)	L X	et let	THE STEE
24, 24,		No.1	No.2	No.3	No.4	Client's Limit
an atlet	Dry staining	4-5	4-5	4-5	4-5	2-3
Length	Wet staining	4-5	4-5	4-5	4-5	2-3
1A7: al4la	Dry staining	Je S	100	12 -21	70,	2-3
Width	Wet staining	14, - 15,	,	A - A	10 to 10	2-3
Conclusion	. 4 4	Pass	Pass	Pass	Pass	20, -2,

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: Grey-black felt

No.2: Black felt

No.3: Blue felt

No.4: Green felt

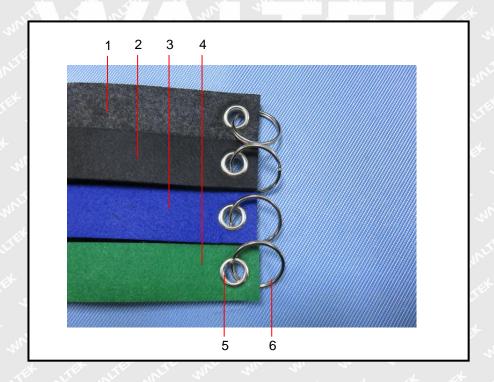
No.5: Silvery metal ring

No.6: Silvery metal ring

Sample photo:



Photograph of parts tested:



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