

## TEST REPORT

Reference No. .....: WTF21F11129034A1C

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

Address ..... 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer.....: 116737

Sample Name..... A4 portfolio in RPET

Model No. ....: : MO6487

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

2) Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011, No. 835/2012 and (EU) 2016/217

3) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006

& Amendment No. 552/2009 & No. 2018/2005

4) 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).

5) 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..... 2021-11-24 & 2021-12-14

Date of Test..... 2021-11-24 to 2021-12-21

Date of Issue .....: 2021-12-23

Test Result .....: Please refer to next page (s)

As specified by client, only test the designated sample. Note .....:

### 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.

#### Prepared By:

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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	TEX TEX	Results (mg/kg)	hir with an	Limit
	(mg/kg)	No.1+No.2	No.3	No.4	(mg/kg)
Lead(Pb)	2	2 ND*	ND N	ND ND	500
Conclusion	Mr. Aur.	Pass	Pass	Pass	WILLEY WALL

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (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.
- (6) The test sample of specimen No.3 and No.4 are received on the date of 2021-11-24.

#### 2) Cadmium (Cd)

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

That Book A A	LOQ	Results (mg/kg)		
Test Item	(mg/kg)	No.3. The most more		
Cadmium(Cd)	2	ND ,		
Conclusion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pass		

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)		
Wet paint	100		
Surface coating	1000		
Plastic	100		
Metal parts of jewellery and hair accessories	100		

(5) The test sample of specimen No.3 is received on the date of 2021-11-24.





Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	LOQ	Results (%)	Limit
	(%)	No.3	(%)
Benzyl butyl phthalate (BBP)	0.005	Intit What ND	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	THE NUTER NOTE WALTE	sum of four
Dibutyl phthalate (DBP)	0.005	ND ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	MAL MAD MILL	The state of the s
Diisodecyl phthalate (DIDP)	0.01	THE ND NITE W	NITE WALL WALL ON
Diisononyl phthalate (DINP)	0.01	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	WHITE WHITE NOTE WAS	primidiates v 0.1
Conclusion	7 12 Tr	Pass	The rail of the

#### Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl phthalate
DNOP= Di-n-octyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

alate DIDP= Di-isodecyl phthalate

(1) % = percentage by weight

DIBP= Diisobutyl phthalate

- (2) ND = Not Detected or lower than limit of quantitation
- (3) LOQ = Limit of quantitation
- (4) "<" = less than
- (5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.
- (6) The test sample of specimen No.3 is received on the date of 2021-11-24.



## 4) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was

No. Amines Substances		CAS No.	Limit	Result (mg/kg)
NO.	Allillies Substances	CAS NO.	(mg/kg)	No.1+No.2
1.	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30	MD*
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*
الد	Conclusion	ij. A	# (E)	Pass



No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)	
NO.	Ammes Substances			No.3	No.4
1	4-Aminobiphenyl	92-67-1	30	ND	ND
2	Benzidine	92-87-5	30	ND	ND
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND
4	2-Naphthylamine	91-59-8	30	ND	ND
5	o-Aminoazotoluene	97-56-3	30	ND TO	ND
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	ND
7	p-Chloroaniline	106-47-8	30	MD.	ND
8	2,4-diaminoanisol	615-05-4	30	ND	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	30	ND	ND
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	ND
12	3,3'-Dimethylbenzidine	119-93-7	30	ND	ND
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	ND
14	p-cresinin	120-71-8	30	ND	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.	MD N
20	2,4,5 – Trimethylaniline	137-17-7	30	ND	ND
21	o-anisidine	90-04-0	30	ND	ND
22	4-aminoazobenzene	60-09-3	30	L ND	ND ND
23	2,4-Xylidin	95-68-1	30	ND	ND
24	2,6-Xylidin	87-62-7	30	ND	ND
	Conclusion	- <u>(1</u> 6)	11 - mil	Pass	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.
- The test sample of specimen No.3 and No.4 are received on the date of 2021-11-24.



## 5) Colour Fastness to Rubbing

Colour Fastne	ess to Rubbing	TEX TEX	STIE MA	1000 1	1. 20.	
(ISO 105-X12:	2016; Size of rubbin	g finger: 16mr	m diameter.)	L X	et let	CIET LIFE
211. 21.	4	No.1	No.2	No.3	No.4	Client's Limit
et et	Dry staining	4-5	4-5	4-5	4-5	2-3
Length	Wet staining	4-5	4 +	4-5	4-5	2-3
NAC 14	Dry staining	4-5	4-5	4-5	4-5	2-3
Width	Wet staining	4-5	4	4-5	4-5	2-3
Conclusion	a de	Pass	Pass	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.
- (2) The test sample of specimen No.3 and No.4 are received on the date of 2021-12-14.

## **Test Specimen Description:**

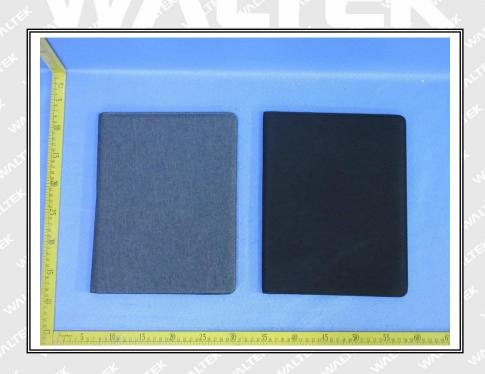
No.1: Black-grey main fabric

No.2: Black main fabric

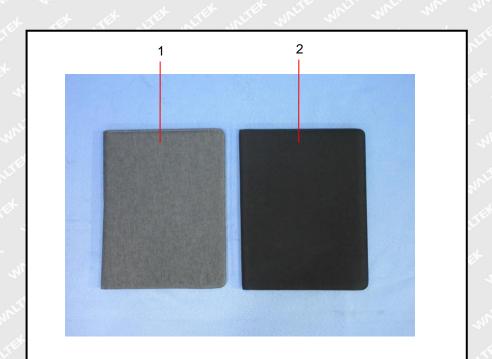
No.3: Black synthetic leather

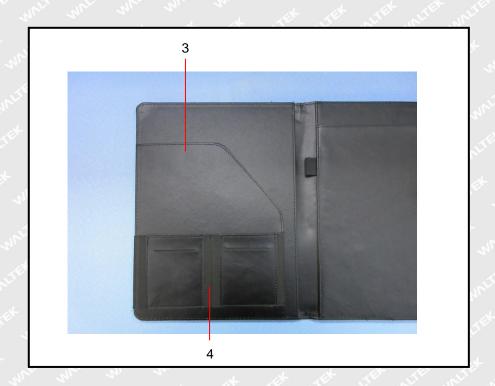
No.4: Black elastic band

## Sample photo:



## Photograph of parts tested:





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