

TEST REPORT

Reference No	WTF21F11126212C
Applicant :	Mid Ocean Brands B.V.
Address :	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	111587
Sample Name	600D RPET polyester backpack, 600D RPET poly messanger bag, 600D RPET poly shopping bag
Model No	MO6464, MO6465, MO6466
Test Requested	 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 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 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 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	Please refer to next page (s)
Date of Receipt sample :	2021-11-18
Date of Test	2021-11-18 to 2021-11-25
Date of Issue	2021-11-25
Test Result :	Please refer to next page (s)
Note	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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Test Result: 1) Lead (Pb)

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

Tool Home	LOQ	Sur An E	Results (mg/kg	Det stor as	Limit
Test Item	(mg/kg)	No.1+No.11	No.2	No.3+No.8	(mg/kg)
Lead(Pb)	s ¹ 2 4	ND*	ND	ND*	500
Conclusion	Set States	Pass	Pass	Pass	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Test Item	LOQ	Results (mg/kg)		
	(mg/kg)	No.4	No.5	(mg/kg)
Lead(Pb)	2	ND	62	500
Conclusion	at the state	Pass	Pass	4

Test Item	LOQ	Results	Limit	
	(mg/kg)	No.6+No.14+No.15	No.7+No.9+No.12	(mg/kg)
Lead(Pb)	2	ND*	ND*	500
Conclusion	Set -Set	Pass	Pass	- -

Test Item	LOQ	Results (Results (mg/kg)		
	(mg/kg)	No.10+No.13	No.16	(mg/kg)	
Lead(Pb)	2	ND*	ND	500	
Conclusion	Jet - Jet	Pass	Pass	st - 15	

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.



2) Cadmium (Cd)

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

Toothem & D	LOQ	Results (mg/kg)		
Test Item	(mg/kg)	No.1+No.11	No.2	
Cadmium(Cd)	2	ND*	ND	
Conclusion	20	Pass	Pass	

Toot Kom	LOQ	Results (mg/kg)		
Test Item	(mg/kg)	No.3+No.8	No.4	
Cadmium(Cd)	2	ND*	ND	
Conclusion		Pass	Pass	

Toot Hom	LOQ	Results (mg/kg)		
Test Item	(mg/kg)	No.7+No.9+No.12	No.10+No.13	
Cadmium(Cd)	2	ND*	ND*	
Conclusion		Pass	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) "*" = Results are calculated by the minimum weight of mixed components.



3) Phthalates

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

Test Items	LOQ (%)	Results (%) No.2	Limit (%)
Benzyl butyl phthalate (BBP)	0.005	ND ND	in the state of
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND ND NIC	sum of four
Dibutyl phthalate (DBP)	0.005	ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND ND	and the second
Diisodecyl phthalate (DIDP)	0.01	ND ND	NUTE WALT WALL W
Diisononyl phthalate (DINP)	0.01	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	July MD ND M	
Conclusion	211-211	Pass	The street of the

Note:

DBP= Dibutyl phthalate DINP= Di-isononyl phthalate DIBP= Diisobutyl phthalate BBP= Benzyl butyl phthalate DNOP= Di-n-octyl phthalate DEHP= Bis-(2-ethylhexyl)- phthalate DIDP= Di-isodecyl phthalate

- (1) % = percentage by weight
- (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.



4) 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)
NO.	Annies Substances	CAS NO.	(mg/kg)	No.1+No.11
104-	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,<8	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 1	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	d 30 d	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*
11.	Conclusion	st 18	54 .5	Pass S



No.	Amines Substances	CAS No.	Limit	Result (mg/kg)
NO.			(mg/kg)	No.2
1.5	4-Aminobiphenyl	92-67-1	30	ND
2	Benzidine	92-87-5	30	ND
3	4-chloro-o-Toluidine	95-69-2	30	ND ND
4	2-Naphthylamine	91-59-8	30	ND
5	o-Aminoazotoluene	97-56-3	30	ND ND
6	2-Amino-4-nitrotoluene	99-55-8	30	ND
7,5	p-Chloroaniline	106-47-8	30	ND S
8	2,4-diaminoanisol	615-05-4	30	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND 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	SND ST
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 al
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 A
23	2,4-Xylidin	95-68-1	30	ND ND
24	2,6-Xylidin	87-62-7	30	ND C
	Conclusion	5 5		Pass



No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg) No.7+No.9+No.12
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	<u></u> 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	<u></u> 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*
	Conclusion	J	10 - M	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.



5) Colour Fastness to Rubbing

Colour Fastne	ess to Rubbing	St 55 5	ie when whe	In in	
(ISO 105-X12:	2016; Size of rubbing	finger: 16mm dia	ameter.)	- 15 A	56 56 S
24. 24		No.1 🦪	No.2	No.7	Client's Limit
Longth	Dry staining	4-5	4-5	4-5	2-3
Length	Wet staining	4-5	4-5	4-5	2-3
\\/idth	Dry staining	4-5	Why the s	2	2-3
Width	Wet staining	4-5	24	de total	2-3
Conclusion	i de at	Pass	Pass	Pass	-20 - 2

Colour Fastness to Rubbing

Colour r astric	ess to Rubbing				
(ISO 105-X12:	2016; Size of rubbin	g finger: 16mm dia	ameter.)	16 . De	white white wh
n	at the de	No.9	No.11	No.12	Client's Limit
Longth	Dry staining	4-5	4-5	4-5	2-3
Length	Wet staining	4-5	4-5	4-5	2-3
Width	Dry staining	MIT JAL	4-5		2-3
Width	Wet staining		4-5	10 . 1 <u>1</u>	2-3
Conclusion	t it it	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.

Test Specimen Description:

- No.1: Black main fabric No.2: Black fabric No.3: Silvery-grey metal buckle No.4: Black plastic zipper tooth No.5: Silvery metal zipper head No.6: Silvery-grey metal buckle No.7: Black net fabric No.8: Silvery-grey metal buckle No.9: Black fabric band No.10: Black plastic loop of VELCRO No.11: Black fabric No.12: Black fabric band No.13: Black plastic hook of VELCRO No.14: Silvery metal buckle No.15: Silvery metal parts
- No.16: Silvery metal buckle

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Sample photo:







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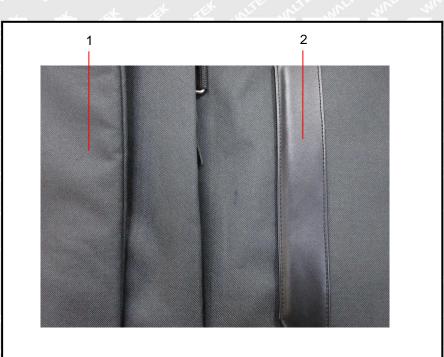


2

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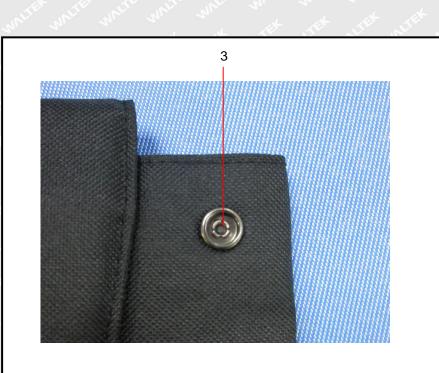


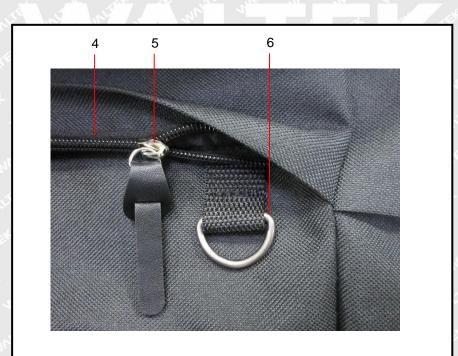
Photograph of parts tested:



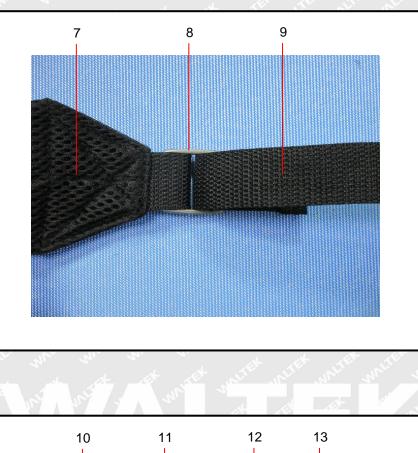


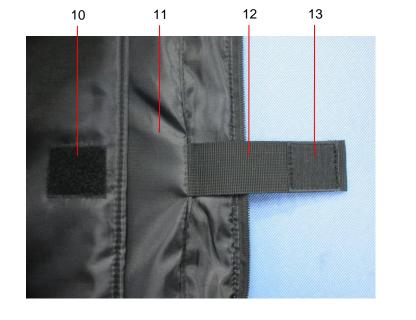
3







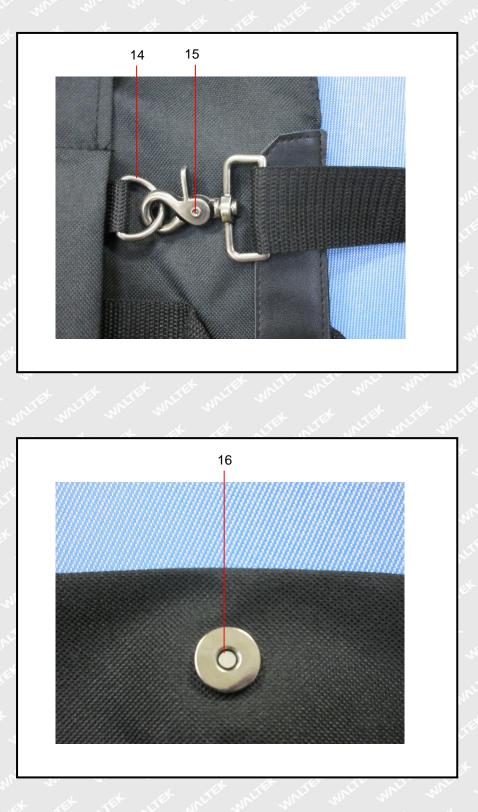




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