

TEST REPORT

Reference No. : WTF21F11124968C

Applicant: Mid Ocean Brands B.V.

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

Hong Kong

Manufacturer..... 111652

Sample Name.....: Backpack in 600D RPET poly

Model No. : MO6515

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.

Please refer to next page (s)

Test Conclusion: Please refer to next page (s)

Date of Receipt sample..... : 2021-11-16

Test Method

Date of Test..... : 2021-11-16 to 2021-12-03

Date of Issue : 2021-12-03

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.

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Test Result:



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

Tool Home	LOQ	Results	(mg/kg)	Limit	
Test Item	(mg/kg)	No.1+No.10+No.11	No.2+No.6+No.7	(mg/kg)	
Lead(Pb)	2	ND*	ND*	500	
Conclusion	"IL" - 10"	Pass	Pass	NIET STRIP	

Took How	LOQ		Results (mg/kg)		Results (mg/kg)		Limit
Test Item	(mg/kg)	No.3	No.4+No.8	No.5	No.9	(mg/kg)	
Lead(Pb)	2	ND	ND*	34	ND	500	
Conclusion	avrnr.	Pass	Pass	Pass	Pass	OLITE TOLIT	

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.

Took Hom	LOQ	Results (mg/kg)			
Test Item	(mg/kg)	No.3	No.5	No.9	
Cadmium(Cd)	2	ND ND	ND WELL	ND	
Conclusion	nite anite and	Pass	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





3) Phthalates

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

Test Items	LOQ	Results (%)	Limit	
	(%) No.9		(%)	
Benzyl butyl phthalate (BBP)	0.005	ND	A A A	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	0.008	sum of four	
Dibutyl phthalate (DBP)	0.005	ND	phthalates < 0.	
Diisobutyl phthalate (DIBP)	0.005	and an ND and a	T The Table	
Diisodecyl phthalate (DIDP)	0.01	THE NO LIFE WA	ite with whi w	
Diisononyl phthalate (DINP)	0.01	ND	sum of three phthalates < 0.1	
Di-n-octyl phthalate (DNOP)	0.005	ND WE	printidiates < 0.1	
Conclusion	211 -211	Pass	LITER OUTE WITE	

Note:

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

DEHP= Bis-(2-ethylhexyl)- phthalate

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.



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	CACNO	Limit	Result (mg/kg)	
NO.	Amines Substances	CAS No.	(mg/kg)	No.1+No.10+No.11	
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*	
· (1	Conclusion	10 L	et -18th	Pass	

100	Aminos Substances	CAS No.	Limit	Result (mg/kg)	
No.	Amines Substances		(mg/kg)	No.2+No.6+No.7	
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*	
Y	Conclusion	- 15EF (1 - n 1	Pass	

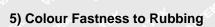


No.	Amines Substances	CAS No.	Limit	Result (mg/kg) No.4+No.8	
INO.	Allilles Substances		(mg/kg)		
1	4-Aminobiphenyl	92-67-1	30	ND*	
2	Benzidine	92-87-5	30	ND*	
3	4-chloro-o-Toluidine	95-69-2	30	ND*	
4	2-Naphthylamine	91-59-8	30	ND*	
5	o-Aminoazotoluene	97-56-3	30	ND*	
6	2-Amino-4-nitrotoluene	99-55-8	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*	
Y .	Conclusion	- <u>(1</u> 6)	(1º -101)	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.

Reference No.: WTF21F11124968C





Colour Fastne	ess to Rubbing	alife with	24, 24,	4	± 15
(ISO 105-X12:	2016; Size of rubbing	finger: 16mm dia	meter.)	TER STEE	RUTE SINCE SUI
	at the set	No.7	No.10	No.11	Client's Limit
The same	Dry staining	4-5	4	4-5	2-3
Length	Wet staining	4-5	4	4-5	2-3
VA7: 444-	Dry staining	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20, 20,	4-5	2-3
Width	Wet staining	<u></u> ,	at at a	4-5	2-3
Conclusion	L at let .	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-grey main fabric

No.2: Black drawstring

No.3: Black plastic zipper tooth

No.4: Black zipper band

No.5: Silvery metal zipper head with black coating

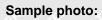
No.6: Black net fabric No.7: Black elastic band No.8: Black fabric band

No.9: Black plastic buckle

No.10: Black fabric band

No.11: Black lining

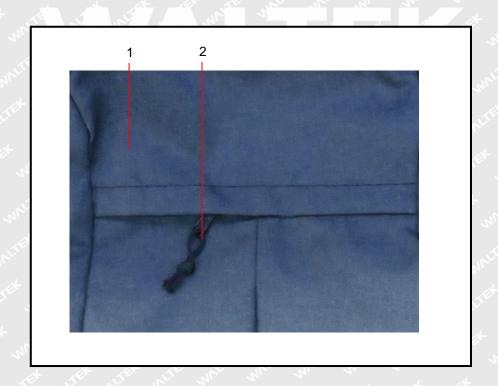
Reference No.: WTF21F11124968C



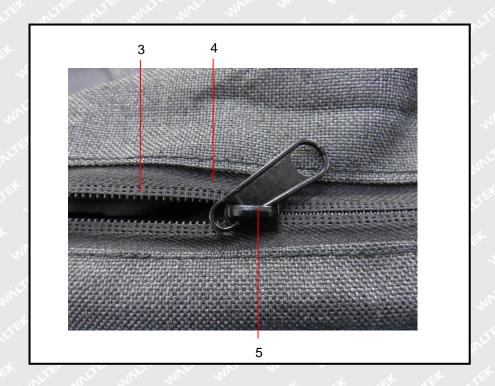


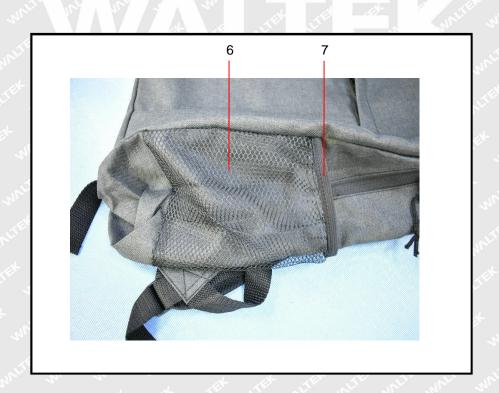


Photograph of parts tested:

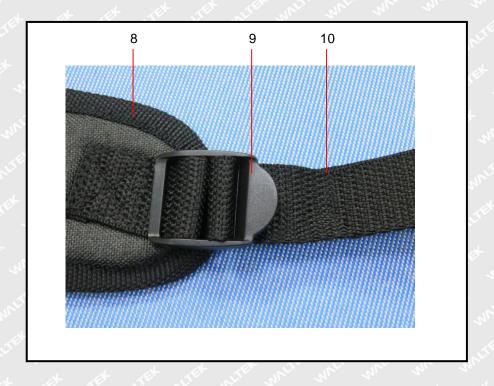


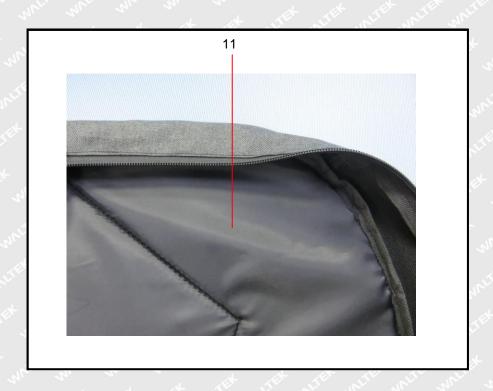












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