

TEST REPORT

Reference No.: WTF19F11078596C

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 with padded shoulder strap

Model No. : MO9294

Date of Receipt sample..... : 2019-11-13

Date of Test...... 2019-11-13 to 2019-11-19

Date of Issue : 2019-11-19

Test Result: Please refer to next page (s)

- quoted from Report No.WTF19F11077705C specimen No.1.
 2) As per client's requirement, the results of specimen No.3 were
- quoted from Report No.WTF19F11077705C specimen No.2.

 3) As per client's requirement, the results of specimen No.4 were quoted from Report No.WTF19F11077705C specimen No.3.

Remarks:

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Test Requested.....::

- 1) 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 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
- 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.



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1) Cadmium (Cd)

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

Test Item	MDL*	(mg/kg)	, J. T.		
	(mg/kg)	No.3	No.4	No.5	No.8
Cadmium(Cd)	2	ND	ND W	ND	ND
Conclusion	1112 - 111	Pass	Pass	Pass	Pass

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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

2) Lead (Pb)

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

Tank Ham	MDL	A	Limit			
Test Item	(mg/kg)	No.1	No.2	No.3	No.4	(mg/kg)
Lead(Pb)	2	ND	ND	S ND	ND W	500
Conclusion	Y / Y	Pass	Pass	Pass	Pass	et set si

Test Item	MDL	- L	Limit			
	(mg/kg)	No.5	No.6	No.7	No.8	(mg/kg)
Lead(Pb)	2	ND	ND T	ND S	ND	500
Conclusion	NITER TOLIE	Pass	Pass	Pass	Pass	EL TEX

Table Ham William	MDL	, , , , , , , , , , , , , , , , , , ,	Results (mg/kg)	EX OLIEX INC	Limit
Test Item	(mg/kg)	No.9	No.10	No.11	(mg/kg)
Lead(Pb)	2	ND	ND	ND	500
Conclusion	NITER - NITER	Pass	Pass	Pass	et -let

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Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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.

3) Phthalates

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

Test Items	MDL		ults %)	Limit
	(%)	No.5	No.8	(%)
Benzyl butyl phthalate (BBP)	0.005	ND	ND	L St St
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND LIE	, ND , m	sum of four
Dibutyl phthalate (DBP)	0.005	ND	ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND	ND	The state of
Diisodecyl phthalate (DIDP)	0.01	ND	ND	White Muri Mu
Diisononyl phthalate (DINP)	0.01	ND	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND	ND M	primarates < 0.1
Conclusion	2 1 - 10	Pass	Pass	TEL NITER WITE

Note:

DBP= Dibutyl phthalate

DINP= Di-isononyl phthalate

DIBP= Diisobutyl phthalate

BBP= Benzyl butyl phthalate

DIDP= Di-isodecyl phthalate

DIDP= Di-isodecyl phthalate

- (1) % = percentage by weight
- (2) ND = Not detected or Less than the method detection limit
- (3) MDL=Method Detection Limit
- (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.

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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	Re	sult (mg/	kg)
NO.	Allilles Substances	CAS NO.	(mg/kg)	No.1	No.2	No.6
1	4-Aminobiphenyl	92-67-1	30	ND	ND	ND
2	Benzidine	92-87-5	30	ND	ND	ND
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND	ND
4	2-Naphthylamine	91-59-8	30	ND	ND	ND
5	o-Aminoazotoluene	97-56-3	30	ND	ND	ND
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	ND	ND
7	p-Chloroaniline	106-47-8	30	ND	ND	ND
8	2,4-diaminoanisol	615-05-4	30	ND	ND	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	30	ND	ND	ND
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	ND	ND
12	3,3'-Dimethylbenzidine	119-93-7	30	ND	ND	ND
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	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	ND
16	4,4'-Oxydianiline	101-80-4	30	ND	ND	ND
17	4,4'-Thiodianiline	139-65-1	30	ND	ND	ND
18	o-Toluidine	95-53-4	30	ND	ND	ND
19	2,4-Toluylendiamine	95-80-7	30	ND	ND	ND
20	2,4,5 – Trimethylaniline	137-17-7	30	√ND √	ND	ND
21	o-anisidine	90-04-0	30	ND	ND	ND
22	4-aminoazobenzene	60-09-3	30	ND	ND	ND
23	2,4-Xylidin	95-68-1	30	ND	ND	ND
24	2,6-Xylidin	87-62-7	30	ND	ND	ND
	Conclusion	Wr Mr.	711	Pass	Pass	Pass



No.	Amines Substances	CAS No.	Limit	Result	(mg/kg)
NO.	Amines Substances	(mg/kg)	(mg/kg)	No.7	No.9
1+	4-Aminobiphenyl	92-67-1	30	ND	ND O
2	Benzidine	92-87-5	30	ND N	ND
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND-
4 🕔	2-Naphthylamine	91-59-8	30	ND ND	ND
5	o-Aminoazotoluene	97-56-3	30	ND	ND
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	AND AND
7	p-Chloroaniline	106-47-8	30	ND	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	anND and	ND
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	ND
12	3,3'-Dimethylbenzidine	119-93-7	30	ND ND	ND O
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	A 30	ND N	ND
17	4,4'-Thiodianiline	139-65-1	30	ND	ND
18	o-Toluidine	95-53-4	30	ND ND	ND
19	2,4-Toluylendiamine	95-80-7	30	ND	ND
20	2,4,5 – Trimethylaniline	137-17-7	30	ND ND	nD _n
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 ND
24	2,6-Xylidin	87-62-7	30	ND w	ND
,	Conclusion	70.	st	Pass	Pass

Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (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



5) Colour Fastness to Rubbing

Colour Fastness to Rubbing									
(ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.)									
LI WALL WALL	No.1	No.2	No.6	No.7	No.9	Client's Limit			
Dry staining	4-5	4-5	4-5	4-5	4-5	2-3			
Wet staining	4-5	4-5	4-5	4-5	4-5	2-3			
Conclusion	Pass	Pass	Pass	Pass	Pass	1/1 - 1/1			

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: Navy main fabric No.2: Black main fabric

No.3: Silvery metal zipper head with black coating

No.4: Black plastic zipper tooth No.5: Black plastic shell of socket

No.6: Black net fabric No.7: Black webbing No.8: Black plastic buckle No.9: Silvery-grey woven lining

No.10: Black plastic loop of VELCRO No.11: Black plastic hook of VELCRO



Sample photo:









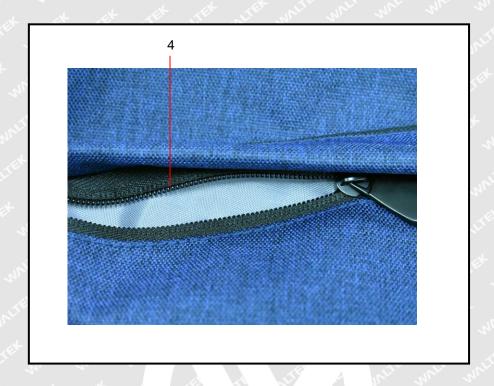


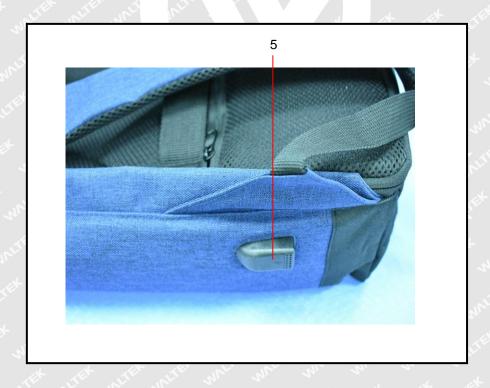


Photographs of parts tested:







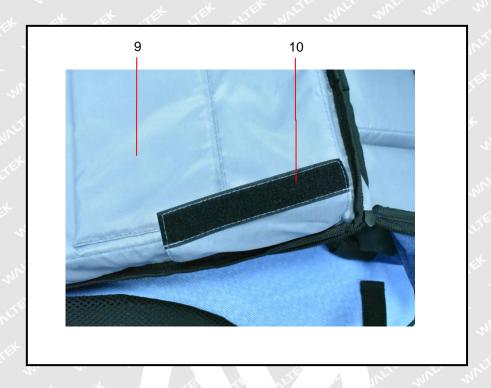


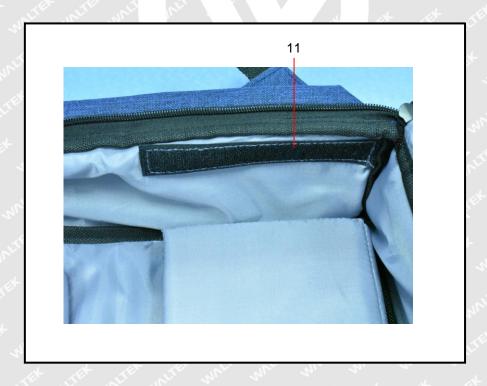












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