

# **TEST REPORT**

Reference No. ..... WTF20F10076217C 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.....: 600D RPET polyester toilet bag, 600D RPETbackpack w/ reflective

accent, 600D RPET backpack

Model No. ....:: : MO6155, MO6156, MO6157

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..... 2020-10-20

Date of Test..... 2020-10-20 to 2020-10-23

Date of Issue ..... 2020-10-23

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

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

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:

# Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City, Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Compiled by:

Approved by:

Rena.Chen / Project Engineer

Swing Liang / Technical Manager

Waltek Testing Group (Foshan) Co., Ltd.

http://www.waltek.com.cn

Page 1 of 13

Reference No.: WTF20F10076217C



### **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.7	No.2+No.3 +No.17	No.4	(mg/kg)	
Lead(Pb)	2	ND*	ND*	ND	500	
Conclusion	<u> </u>	Pass	Pass	Pass	2/2 7/1	

Test Item	LOQ	Results (mg/kg)				
	(mg/kg)	No.5+No.9 +No.20	No.6+No.8 +No.19	No.10+No.13	Limit (mg/kg)	
Lead(Pb)	2	ND*	68*	ND*	500	
Conclusion	LET TET	Pass	Pass	Pass	* - x	

Total Marie	LOQ	Mr. Mr.	Limit		
Test Item	(mg/kg)	No.11+No.12	No.14	No.15+No.16	(mg/kg)
Lead(Pb)	2 112	ND*	ND	ND*	500
Conclusion	TEX - TEX	Pass	Pass	Pass	* - *

Test Item	LOQ		Results (mg/kg)	Et TEX	Limit
	(mg/kg)	No.17	No.18	No21	(mg/kg)
Lead(Pb)	2	ND	ND	ND ND	500
Conclusion	V A-V A	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 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.

The kend to	LOQ	NALTE WALL	Results (mg/kg)	at let let	
Test Item	(mg/kg)	No.4	No.5+No.9+No.20	No.6+No.8+No.19	
Cadmium(Cd)	2	ND	ND*	ND*	
Conclusion		Pass	Pass	Pass	

Tally was like	LOQ	Results	(mg/kg)
Test Item	(mg/kg)	No.11+No.12	No.15+No.16
Cadmium(Cd)	2	ND*	ND*
Conclusion	2 1	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.



Reference No.: WTF20F10076217C



# 3) Phthalates

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

Test Items	LOQ	NIFE WALTE	Limit		
	(%)	No.4	No.15	No.16	(%)
Benzyl butyl phthalate (BBP)	0.005	ND	ND	ND	A AN AN
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND	an i ND an	sum of four
Dibutyl phthalate (DBP)	0.005	ND	ND -	ND NO	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND ND	ND	ND	et et
Diisodecyl phthalate (DIDP)	0.01	ND ND	ND	ND	aury aur au
Diisononyl phthalate (DINP)	0.01	ND	ND	ND	sum of three phthalates < 0.
Di-n-octyl phthalate (DNOP)	0.005	ND	ND	ND W	
Conclusion	-July	Pass	Pass	Pass	E White-White

#### Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl 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.



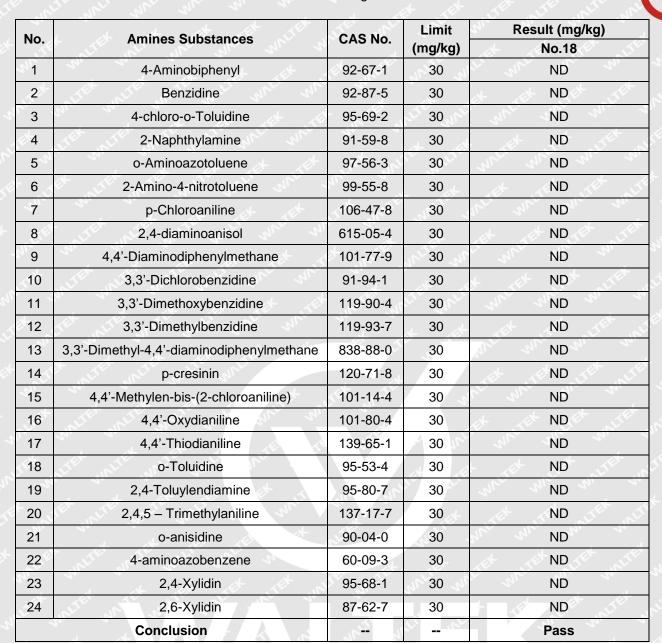
# 4) AZO

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.	Allillies Substances	CAS NO.	(mg/kg)	No.1+No.7	No.2+No.17	
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*	ND*	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*	ND*	
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	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*	
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*	ND*	
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	ND*	ND*	
23	2,4-Xylidin	95-68-1	30	ND*	ND*	
24	2,6-Xylidin	87-62-7	30	ND*	ND*	
	Conclusion	Wr Wr.	7/1	Pass	Pass	

Page 6 of 13

No.	Amines Substances	CAS No.	Limit	Result (mg/kg)	
NO.	Amines Substances	CAS NO.	(mg/kg)	No.3	No.14
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 N	ND
4	2-Naphthylamine	91-59-8	30	ND	ND
5 0	o-Aminoazotoluene	97-56-3	30	WD W	ND
6	2-Amino-4-nitrotoluene	99-55-8	30	ND O	ND
7	p-Chloroaniline	106-47-8	30	ND	w 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	MND M	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 OF	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 W	ND
18	o-Toluidine	95-53-4	30	ND	ND
19	2,4-Toluylendiamine	95-80-7	30	MD M	ND
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	ND.	ND
23	2,4-Xylidin	95-68-1	30	ND	ND
24	2,6-Xylidin	87-62-7	30	ND	ND
	Conclusion		<u> </u>	Pass	Pass



### Note:

- ND = Not detected or less 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 Fastness to R	ubbing	LEK JER (	Life In Lite Wal	Mr. M.
(ISO 105 X12: 2001/Cd	or 2002; Size of rubbing fi	nger: 16mm diamet	er.)	i it it
in whi with a	No.1	No.2	No.3	Client's Limit
Dry staining	4-5	4-5	4-5	2-3
Wet staining	4-5	4-5	4-5	2-3
Conclusion	Pass	Pass	Pass	44 - 44 - 44

Colour Fastness to R	ubbing	ALTE WAL	The Mr. M.			
(ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.)						
11. 11. 2.	No.7	No.14	No.17+No.18	Client's Limit		
Dry staining	4-5	4-5	4-5*	2-3		
Wet staining	4-5	4-5	4-5*	2-3		
Conclusion	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) "\*" = As per applicant's requirement, the testing was conducted based on mixed components.

# **Test Specimen Description:**

No.1: Black main fabric

No.2: Black net fabric

No.3: Black webbing

No.4: Black plastic buckle

No.5: Black plastic zipper tooth

No.6: Silvery metal zipper head with black coating

No.7: Black lining

No.8: Silvery metal zipper head with black coating

No.9: Black plastic zipper tooth

No.10: Black plastic hook of VELCRO

No.11: Black plastic loop of VELCRO

No.12: Black plastic loop of VELCRO

No.13: Black plastic hook of VELCRO

No.14: Black elastic band

No.15: Black plastic handle

No.16: Black plastic buckle

No.17: Black net fabric

No.18: Black elastic band

No.19: Silvery metal zipper head

No.20: Black plastic zipper tooth

No.21: Black drawstring

# Reference No.: WTF20F10076217C

# Sample photo:



# Photographs of parts tested:





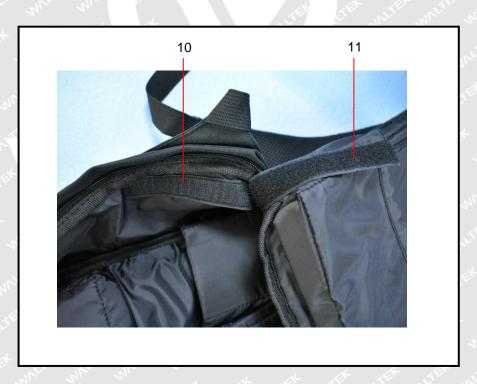






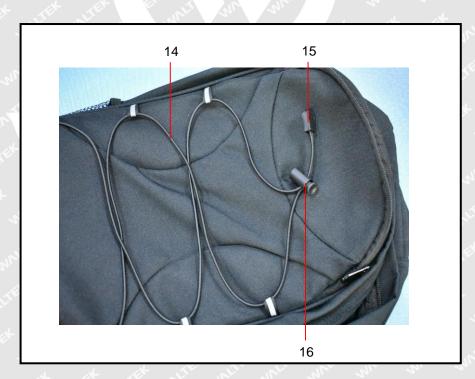




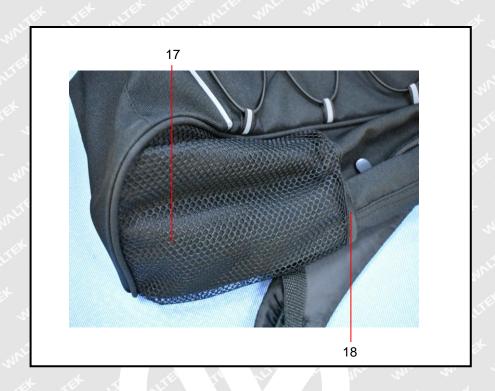














===== End of Report =====