

TEST REPORT

Reference No.: WTF21F09102212C

Applicant: Mid Ocean Brands B.V.

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

Hong Kong

Manufacturer..... : 111033

Sample Name...... : Zipped A4 size portfolio in two tone polyester

Model No. : MO9549

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 : 2021-09-24

Date of Test..... : 2021-09-24 to 2021-10-12

Date of Issue : 2021-10-12

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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Approved by:

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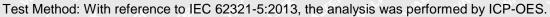
Swing.Liang / Technical Manager

Waltek Testing Group (Foshan) Co., Ltd. http://www.waltek.com.cn

Page 1 of 9

Reference No.: WTF21F09102212C







Take Handliff MALIT	LOQ	Results (Limit		
Test Item	(mg/kg)	No.1+No.2+No.8	No.3	(mg/kg)	
Lead(Pb)	2	ND*	ND ND	500	
Conclusion	1 Et . 1 Et .	Pass	Pass	A 24 2	

- SLIFE WALTER WA	LOQ	Results (m	Limit	
Test Item	(mg/kg)	No.4+No.9+No.10	No.5	(mg/kg)
Lead(Pb)	2	ND*	ND	500
Conclusion	TER TER	Pass	Pass	

Test Item	LOQ	Results	Limit	
	(mg/kg)	No.6	No.7	(mg/kg)
Lead(Pb)	2	ND	ND	500
Conclusion	* JET - JIET W	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.

Touther at the	LOQ	Results	(mg/kg)	
Test Item	(mg/kg)	No.5	No.6	
Cadmium(Cd)	2 1	ND ND	ND	
Conclusion	** J - J+	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



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

Test Items	LOQ	Results (%)	Limit	
	(%)	No.7	(%)	
Benzyl butyl phthalate (BBP)	0.005	ND	at at a	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	L CITE ND WATER ON	sum of four	
Dibutyl phthalate (DBP)	0.005	ND ND	phthalates < 0.1	
Diisobutyl phthalate (DIBP)	0.005	Murr Mur ND Mur An	41, 44	
Diisodecyl phthalate (DIDP)	0.01	THE STOND SELECTION	WILL MULL M	
Diisononyl phthalate (DINP)	0.01	ND	sum of three phthalates < 0.	
Di-n-octyl phthalate (DNOP)	ctyl phthalate (DNOP) 0.005		primaratoo v 0.1	
Conclusion	44-	Pass	ex street mire	

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.





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)	
140.	Allilles Substances	CAS NO.	(mg/kg)	No.1+No.2+No.8	
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*	
70	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	D- 2	F 30 0	Pass	



No.	Amines Substances	CAS No.	Limit	Result (mg/kg)	
INO.	Ailliles Substances	CAS NO.	(mg/kg)	No.4+No.9+No.10	
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>Jan</u>	5	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	THE THE	SUTE WAL	, 20, 21	1. 20.	
(ISO 105-X12:	2016; Size of rubbin	g finger: 16mr	m diameter.)	L 14	et et	TER STE
211. 20.	4	No.1	No.2	No.4	No.8	Client's Limit
an atlet	Dry staining	4-5	4-5	4-5	4-5	2-3
Length	Wet staining	4-5	4-5	4-5	4-5	2-3
1A7: al4la	Dry staining	4-5	4-5	4-5	4-5	2-3
Width	Wet staining	4-5	4-5	4-5	4-5	2-3
Conclusion		Pass	Pass	Pass	Pass	20, -2,

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 fabric

No.2: Grey fabric

No.3: Coppery metal sheet with black plating

No.4: Black elastic band

No.5: Black plastic zipper tooth

No.6: Silvery metal zipper head with black plating

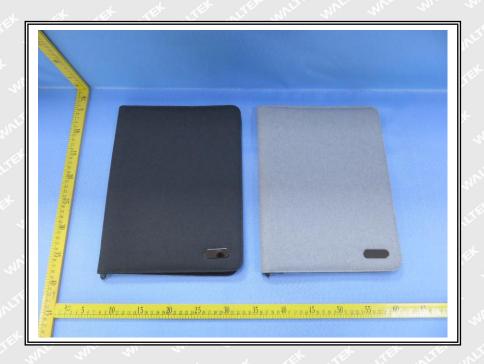
No.7: Black synthetic leather

No.8: Black lining No.9: Black fabric rim

No.10: Black elastic band

Sample photo:

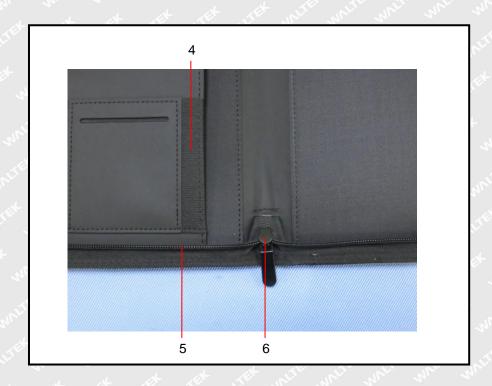


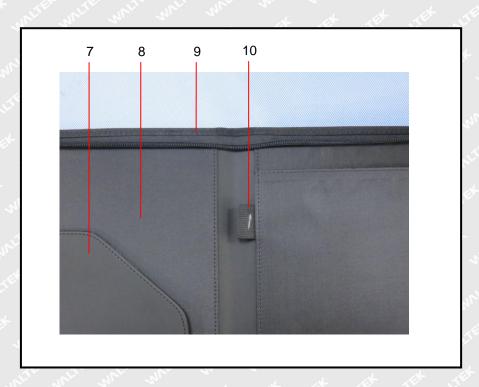


Photograph of parts tested:









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