

TEST REPORT

Reference No.	in.	WTF20F03010592C
Applicant	:	Mid Ocean Brands B.V.
Address	. Se	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,
		Hong Kong
Manufacturer	÷	103738
Sample Name	:	PU portfolio w/ 20 pages bloc
Model No.	:	IT3750
Test Requested	win annin in Et Et	 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 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).
Test Method	vinit Init Itek	 4) 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 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		2020-03-17
Date of Test	:	2020-03-17 to 2020-03-20
Date of Issue	sull'	2020-03-23
Test Result Remarks:	:	Please refer to next page (s)

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Rena.Chen / Project Engineer

Liang / Technical Manager



Test Result:

1) Lead (Pb)

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

Test Item	MDL	Results (mg/kg)			Limit
	(mg/kg)	No.1+No.3	No.2	No.4	(mg/kg)
Lead(Pb)	at 25th	ND*	ND N	46	500
Conclusion	11 1	Pass	Pass	Pass	WILL -WIL

Test Item	MDL 🗸	Results	Limit	
	(mg/kg)	No.5	No.6	(mg/kg)
Lead(Pb)	2 1	ND ND	ND	500
Conclusion	Wer - Wer .	Pass	Pass	TE WALT WALT

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.
- (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 share way	MDL		Results (mg/kg)	TE WAITE NALTE W
Test Item	(mg/kg)	No.1+No.3	No.5	No.6
Cadmium(Cd)	2	ND*	ND	ND M
Conclusion		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

(5) "*" = Results are calculated by the minimum weight of mixed components.

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3) 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)	
<u>.</u>	Annies oubstances		(mg/kg)	No.1+No.3	
_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 50	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	me - m	11. 1	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
- "*" = Results are calculated by the minimum weight of mixed components.



4) Phthalates

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

Test Items	MDL (%)	Results (%)		Limit
white white whe whe		No.1+No.3	No.6	- (%) (%)
Benzyl butyl phthalate (BBP)	0.005	ND*	ND	. Tet Jet
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND	sum of four phthalates <
Dibutyl phthalate (DBP)	0.005	ND*	ND	0.1
Diisobutyl phthalate (DIBP)	0.005	ND*	ND	
Diisodecyl phthalate (DIDP)	0.01	ND*	JOND JO	sum of three
Diisononyl phthalate (DINP)	0.01	ND*	ND	phthalates <
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND	0.1
Conclusion		Pass	Pass	JULE JULE

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 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.
- (6) "*" = Results are calculated by the minimum weight of mixed components.



5) Colour Fastness to Rubbing

Colour Fastness to Rub	bing 🙏 🔬	NETE MALL WAL	me m m
(ISO 105 X12: 2001/Cor	2002; Size of rubbing finger: 16n	nm diameter.)	A A A
the way with the	No.1+No.3	No.4	Client's Limit
Dry staining	4-5	4.00 10	2-3
Wet staining	4-5	4-5	2-3
Conclusion	Pass	Pass S	me m m

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 synthetic leather

No.2: Silvery metal sheet

No.3: Black synthetic leather

No.4: Black fabric

No.5: White paper with black printing

No.6: Black plastic net

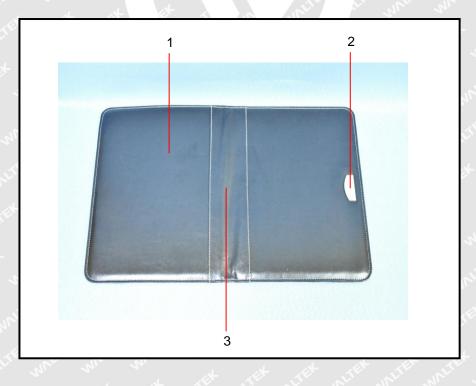
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Sample photo:



Photographs of parts tested:







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

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