

TEST REPORT

Reference No.	- Mr.	WTF19F09067524C
Applicant	:10	Mid Ocean Brands B.V.
Address	N. 	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	÷.,	115628
Sample Name	÷	Lanyards
Model No.	:	ML1031, ML1032, ML1033
Test Requested	WALT ILTEX WALT	 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 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 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). 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	: ~~	2019-09-27
Date of Test	: 1	2019-09-27 to 2019-10-09
Date of Issue	-	2019-10-09
Test Result	: /	Please refer to next page (s)

Remarks:

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ved by: any g.Liang / Lab Manager

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Test Result:

1) Cadmium (Cd)

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

Test Item	MDL S	Results (mg/kg)			
	(mg/kg)	No.2			
Cadmium(Cd)	2	ND ND			
Conclusion	-24 - 24	Pass of Antheory			

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	J 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.

Toot Kom	MDL	Results (r	Limit		
Test Item	(mg/kg)	No.1+No.5+No.7	No.2	(mg/kg)	
Lead(Pb)	2	ND*	ND	500	
Conclusion	-	Pass	Pass	alt internet	

Test Item	MDL N	MDL Results (mg/kg)				
	(mg/kg)	No.3+No.9	No.4+No.6	No.8	(mg/kg)	
Lead(Pb)	2	ND*	ND*	ND	500	
Conclusion	1 - A	Pass	Pass	Pass	w w	

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.



3) Phthalates

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

Test Items	MDL (%)	Results (%) No.2	Limit (%)
Benzyl butyl phthalate (BBP)	0.005	ND	t at at all
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	et unit ND it unit	sum of four
Dibutyl phthalate (DBP)	0.005	ND ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND	st at at
Diisodecyl phthalate (DIDP)	0.01	ND ND	MIT & MIT WALL W
Diisononyl phthalate (DINP)	0.01	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND	
Conclusion		Pass	NITE WITE WITE

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.



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.		CAS NO.	(mg/kg)	No.1	No.5	No.7
1	4-Aminobiphenyl	92-67-1	30	ND	ND	ND
2	Benzidine	92-87-5	رما ^ل 30 روا	ND	ND	ND
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND	ND
4	2-Naphthylamine	91-59-8	30	ND	ND S	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	vn 30 vn	ND	ND	ND
8	2,4-diaminoanisol	615-05-4	<u>30</u>	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 S	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 S	ND	ND
21	o-anisidine	90-04-0	an 30 an	ND	ND	ND
22	4-aminoazobenzene	60-09-3	30	ND	ND	ND
23	2,4-Xylidin	95-68-1	30		ND	ND
24	2,6-Xylidin	87-62-7	30	ND	ND	ND
	Conclusion	mr - m	- m	Pass	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.)							
4-5	4-5	4-5	2-3				
4-5	4-5 J	4-5	2-3				
Pass	Pass	Pass					
	2002; Size of rubbing No.1 4-5 4-5	No.1 No.5 4-5 4-5 4-5 4-5	No.1 No.5 No.7 4-5 4-5 4-5 4-5 4-5 4-5				

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: Multicolor fabric rope
- No.2: Yellow plastic tube with black printing
- No.3: Silvery metal ring
- No.4: Silvery metal buckle with red plating
- No.5: Multicolor fabric rope
- No.6: Silvery metal buckle
- No.7: Multicolor fabric rope
- No.8: Silvery metal buckle with blue plating
- No.9: Silvery metal ring

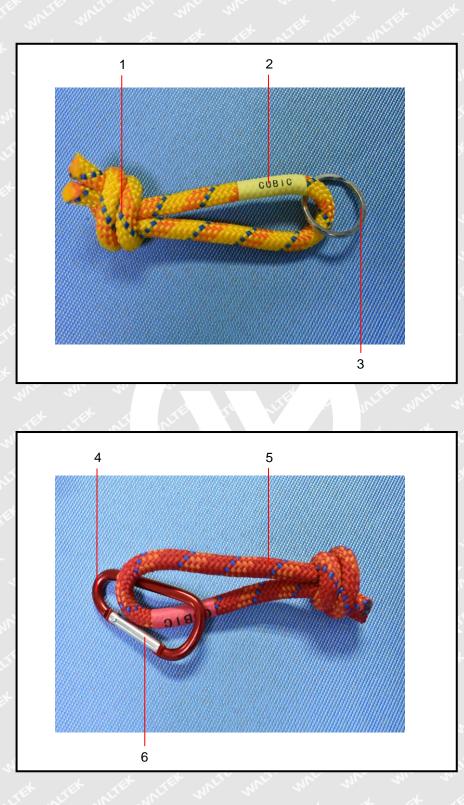
Sample photo:



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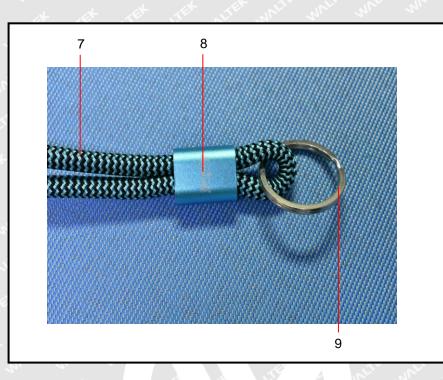


Photographs of parts tested:



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

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