



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF18F09125388A2X3C

Applicant : Mid Ocean Brands B.V.

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

Manufacturer : 114966

Sample Name : Key chain

Model No. : MPIN01, MPIN02/MK2015, MK2016, MK2017/MK4006/MMAG01/MPIN03, MPHNO1

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
4) As requested by client, to determine the Diisobutyl phthalate (DIBP) content in the submitted samples
5) 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 : Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample : 2018-09-30 & 2018-10-24 & 2018-11-07

Date of Test : 2018-09-30 to 2018-11-10

Date of Issue : 2019-06-21

Test Result : Please refer to next page (s)

Note : This report is based on Waltek test report WTF18F09125388A2X2C for revising, and replaced report WTF18F09125388A2X2C.

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 reporter and reviewer.

Prepared By:

Waltek Services (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:

Swing Liang

Swing.Liang /Project Engineer

Approved by:



Dino Zhang

Dino Zhang /Lab 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 (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.1	No.3	No.4	No.5	
Lead(Pb)	2	ND	ND	ND	ND	500
Conclusion	--	Pass	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.6	No.7	No.8	No.9	
Lead(Pb)	2	ND	113	ND	ND	500
Conclusion	--	Pass	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.10	No.11	No.12	
Lead(Pb)	2	ND	ND	ND	500
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 Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.

WALTEK

2) Cadmium (Cd)

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

Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.2	No.5
Cadmium(Cd)	2	ND	ND
Conclusion	--	Pass	Pass

Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.9	No.10
Cadmium(Cd)	2	ND	ND
Conclusion	--	Pass	Pass



Test Item	MDL (mg/kg)	Results (mg/kg)
		No.11
Cadmium(Cd)	2	ND
Conclusion	--	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

3) Phthalates

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

Test Items	BBP	DBP	DEHP	DIDP	DINP	DNOP	--
MDL (%)	0.005	0.005	0.005	0.01	0.01	0.005	--
Limit (%)	sum of three phthalates < 0.1			sum of three phthalates < 0.1			--
Specimen No.	Result (%)						Conclusion
No.5	ND	ND	ND	ND	ND	ND	Pass
No.9	ND	ND	ND	ND	ND	ND	Pass
No.10	ND	ND	ND	ND	ND	ND	Pass
No.11	ND	ND	ND	ND	ND	ND	Pass

Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl 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(formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.



4) Diisobutyl Phthalate(DIBP)

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

Test Item(s)	MDL (mg/kg)	Results (mg/kg)	Client's Limit (mg/kg)
		No.5	
Diisobutyl phthalate (DIBP)	50	ND	1000
Conclusion	--	Pass	--

Test Item(s)	MDL (mg/kg)	Results (mg/kg)	Client's Limit (mg/kg)
		No.9	
Diisobutyl phthalate (DIBP)	50	ND	1000
Conclusion	--	Pass	--

Test Item(s)	MDL (mg/kg)	Results (mg/kg)	Client's Limit (mg/kg)
		No.10	
Diisobutyl phthalate (DIBP)	50	ND	1000
Conclusion	--	Pass	--

Test Item(s)	MDL (mg/kg)	Results (mg/kg)	Client's Limit (mg/kg)
		No.11	
Diisobutyl phthalate (DIBP)	50	ND	1000
Conclusion	--	Pass	--

Note:

- (1) mg/kg=milligram per kilogram=ppm
- (2) ND = Not detected or Less than the method detection limit
- (3) MDL=Method Detection Limit



5) 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 (mg/kg)	Result (mg/kg)
				No.6
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
Conclusion		--	--	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



Test Specimen Description:

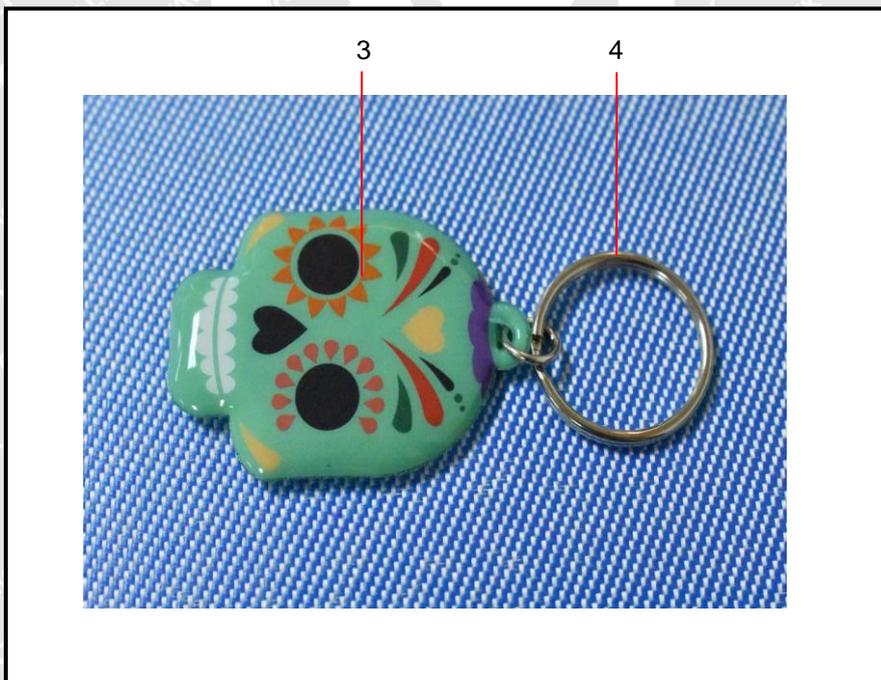
- No.1: Golden metal sheet with black and red coating
- No.2: Golden metal buckle
- No.3: Transparent plastic shell with multicolor coating
- No.4: Silvery metal ring
- No.5: Blue-white sponge whit white printing
- No.6: Blue woven band
- No.7: Silvery metal buckle
- No.8: Silvery metal sheet with multicolor coating
- No.9: Multicolor soft plastic sheet
- No.10: Black soft plastic sheet
- No.11: Blue plastic sheet with white printing
- No.12: Silvery metal ring

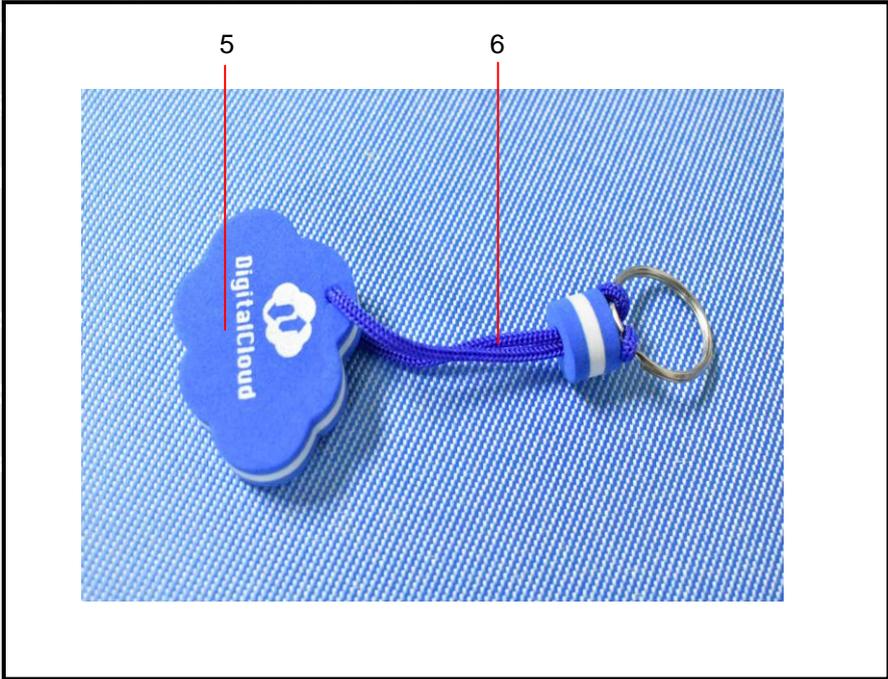
Sample photo:

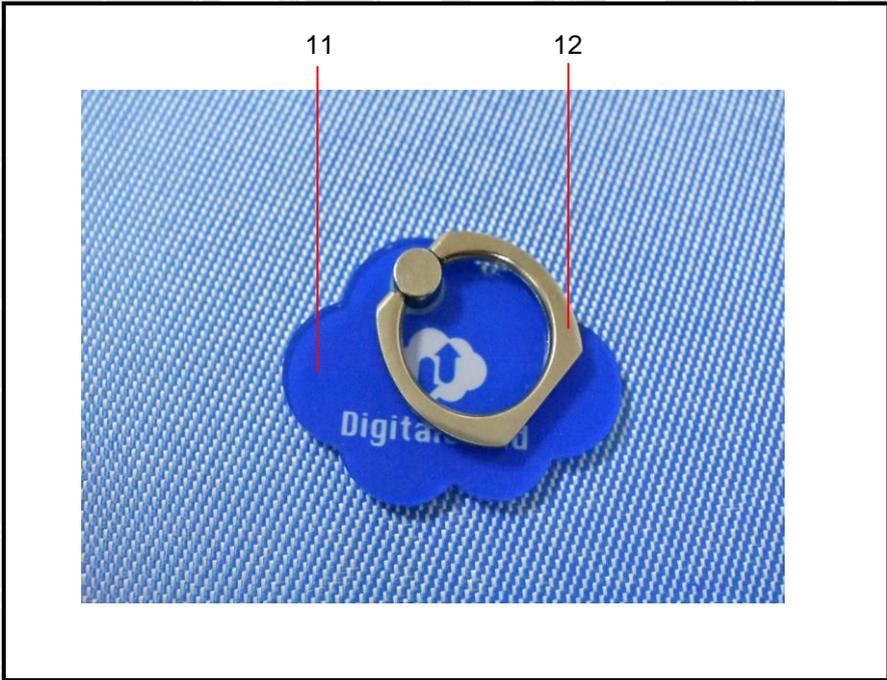
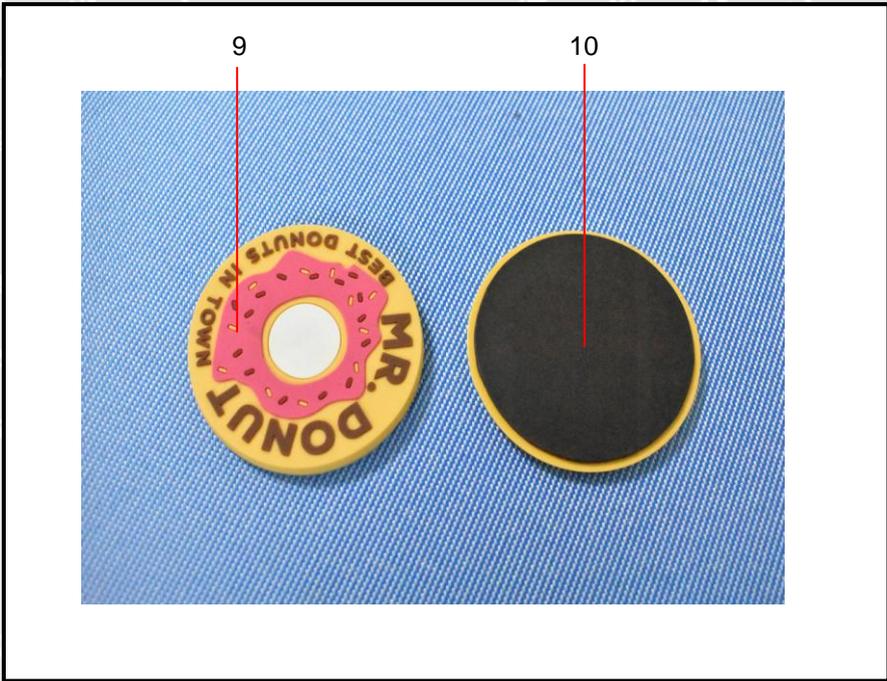




Photographs of parts tested:







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