



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF17F0990994A1C

Applicant : Mid Ocean Brands B.V.

Address : Unit 201 2/F., Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.

Manufacturer..... : 114766

Sample Name..... : RFID blocking card / Sleeve

Model No...... : MGRF01, MGRF02

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

Test Method : Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample..... : 2017-09-22 & 2017-10-21

Date of Test..... : 2017-09-22 to 2017-10-28

Date of Issue : 2017-11-02

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

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 Town, Shunde District, Foshan, Guangdong, China

Tel : +86-757-23811398 Fax: +86-757-23811381

Compiled by:

Approved by:

Swing Liang



Dino Zhang

Swing.Liang /Project Engineer

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.2	No.3	
Lead(Pb)	2	ND	ND	ND	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.4	No.5	No.6	
Lead(Pb)	2	ND	ND	ND	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.7	No.8	No.9	
Lead(Pb)	2	78	ND	78	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.10	No.11	No.12	
Lead(Pb)	2	119	ND	592*	500
Conclusion	--	Pass	Pass	See Note	--

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) "*" = According to the declaration from client, the source of lead in test sample could be from the glass or ceramic material of that electronic component which is exempted by Directive 2011/65/EU.



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.1	No.3
Cadmium(Cd)	2	ND	ND
Conclusion	--	Pass	Pass

Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.4	No.5
Cadmium(Cd)	2	ND	ND
Conclusion	--	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

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.1	ND	ND	ND	ND	ND	ND	Pass
No.3	ND	ND	ND	ND	0.011	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.



Test Specimen Description:

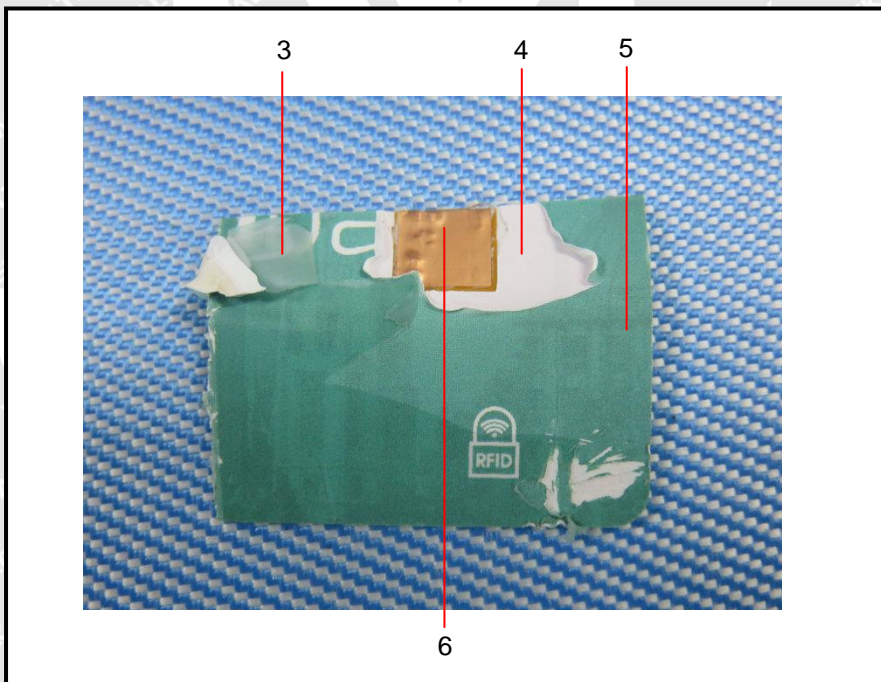
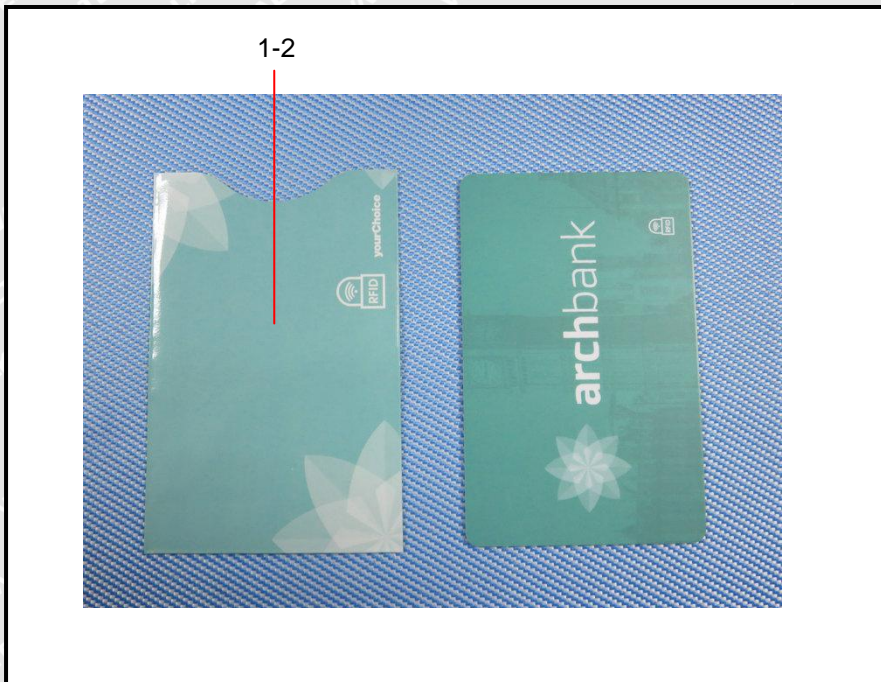
- No.1: Transparent plastic film
- No.2: Green-silvery paper bag
- No.3: Transparent plastic film
- No.4: White plastic card
- No.5: Green coating
- No.6: Coppery metal foil
- No.7: Chip audion
- No.8: Chip inductor
- No.9: Chip capacitor
- No.10: Solder
- No.11: Chip diode
- No.12: Chip resistor

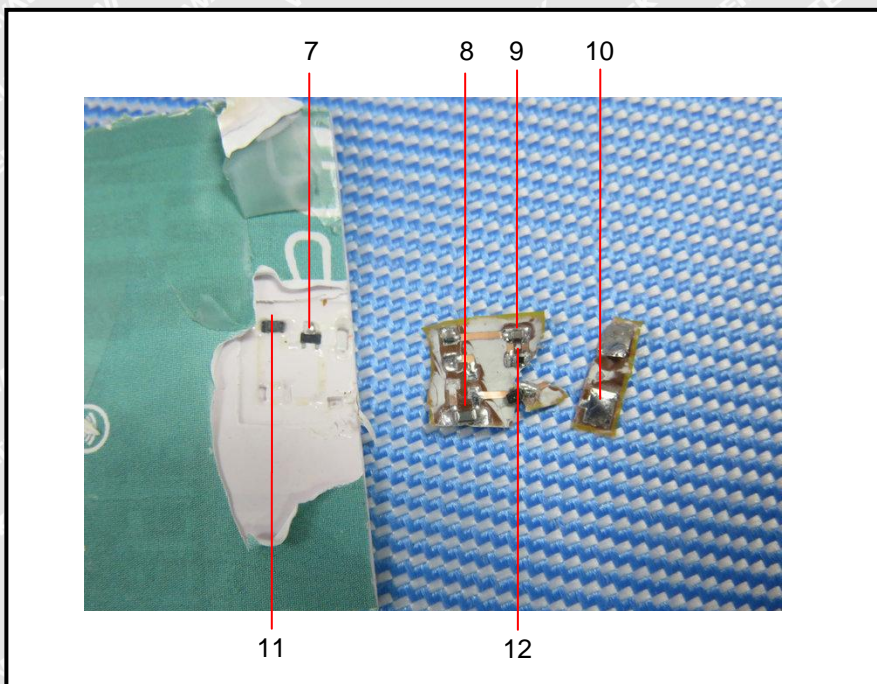
Sample photo:





Photographs of parts tested:





==== End of Report ====

WALTEK