



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF17F0373425C

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 : 105307

Sample Name : PVC bag

Model No. : IT2558

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 : 2017-03-14

Date of Test : 2017-03-14 to 2017-03-18

Date of Issue : 2017-03-28

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:

Swing Liang

Swing Liang /Project Engineer

Approved by:



Jackson Zhou

Jackson Zhou /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	No.4+No.5	No.6+No.7	No.8	
Lead(Pb)	2	ND*	ND*	53*	ND	500
Conclusion	--	Pass	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.
- (5) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only

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.2+ No.3	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

- (5) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only



3) Phthalates

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

Test Item(s)	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		No.1	
Dibutyl phthalate (DBP)	50	ND	1000
Benzylbutyl phthalate (BBP)	50	ND	1000
Di (2-ethyl hexyl)- phthalate (DEHP)	50	ND	1000
Diisononyl phthalate (DINP)	100	ND	1000
Di-n-octyl phthalate (DNOP)	50	ND	1000
Diisodecyl phthalate (DIDP)	100	ND	1000
Conclusion	--	Pass	--

Note:

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

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.1	
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
- (4) The testing item marked with [#] do not been accredited by CNAS



5) AZO

Test Method: with reference to BS EN 14362-1: 2012 and BS EN 14362-3: 2012, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)	
				No.9+ No.10+ No.11	No.12+ No.13
1	4-Aminobiphenyl	92-67-1	30	ND*	ND*
2	Benzidine	92-87-5	30	ND*	ND*
3	4-chloro-o-Toluidine	95-69-2	30	ND*	ND*
4	2-Naphthylamine	91-59-8	30	ND*	ND*
5	o-Aminoazotoluene	97-56-3	30	ND*	ND*
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*	ND*
7	p-Chloroaniline	106-47-8	30	ND*	ND*
8	2,4-diaminoanisol	615-05-4	30	ND*	ND*
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND*	ND*
10	3,3'-Dichlorobenzidine	91-94-1	30	ND*	ND*
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*	ND*
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*	ND*
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*	ND*
14	p-cresinin	120-71-8	30	ND*	ND*
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*	ND*
16	4,4'-Oxydianiline	101-80-4	30	ND*	ND*
17	4,4'-Thiodianiline	139-65-1	30	ND*	ND*
18	o-Toluidine	95-53-4	30	ND*	ND*
19	2,4-Toluylendiamine	95-80-7	30	ND*	ND*
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*	ND*
21	o-anisidine	90-04-0	30	ND*	ND*
22	4-aminoazobenzene	60-09-3	30	ND*	ND*
23	2,4-Xylidin	95-68-1	30	ND*	ND*
24	2,6-Xylidin	87-62-7	30	ND*	ND*
Conclusion		--	--	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
- “#” = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only



Test Specimen Description:

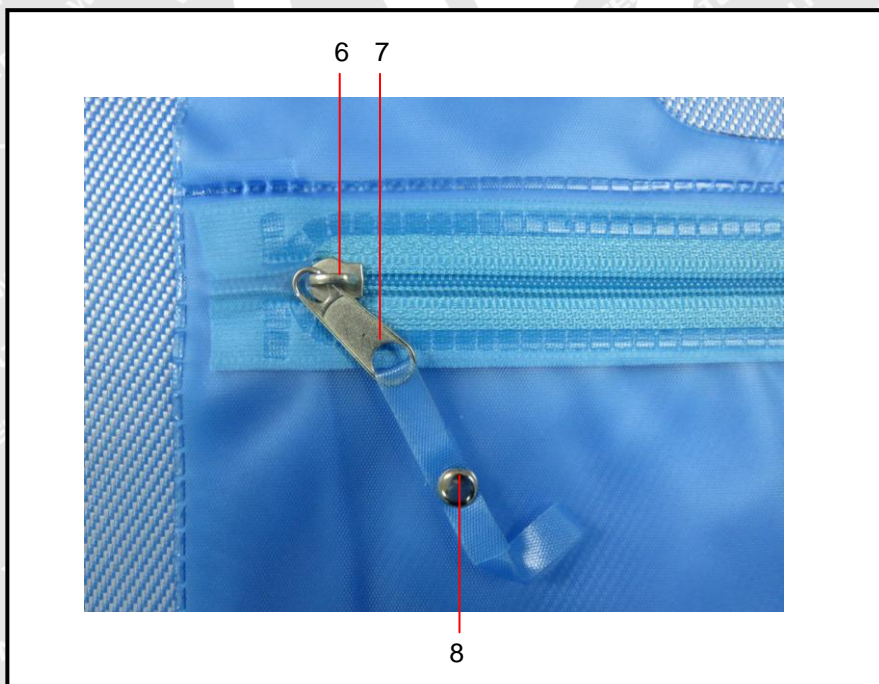
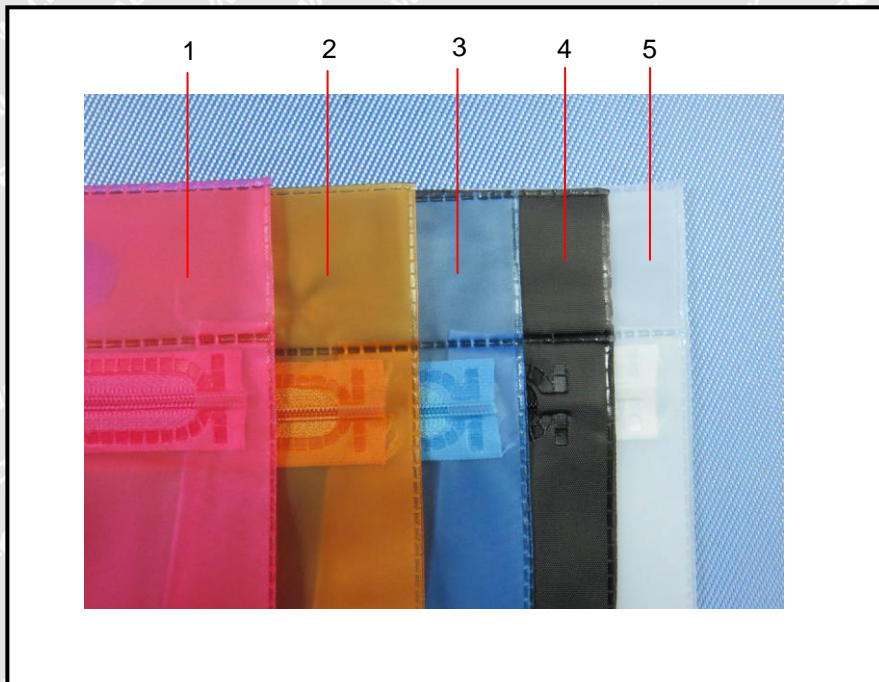
- No.1: Pink plastic bag
- No.2: Orange plastic bag
- No.3: Blue plastic bag
- No.4: Black plastic bag
- No.5: White plastic bag
- No.6: Silvery metal zipper head
- No.7: Silvery metal zipper puller
- No.8: Silvery metal rivet
- No.9: Pink zipper fabric
- No.10: Orange zipper fabric
- No.11: Blue zipper fabric
- No.12: Black zipper fabric
- No.13: White zipper fabric

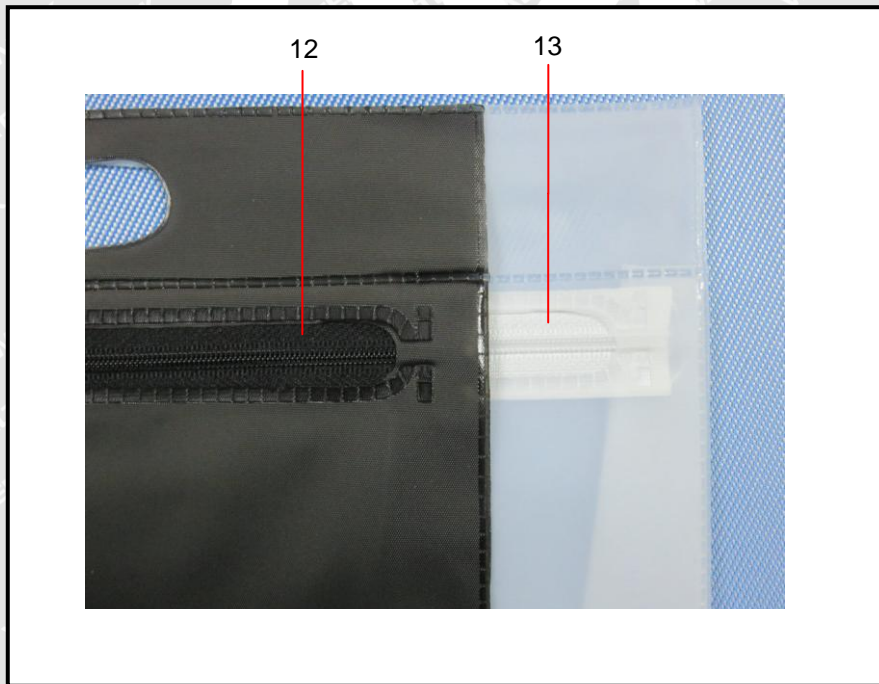
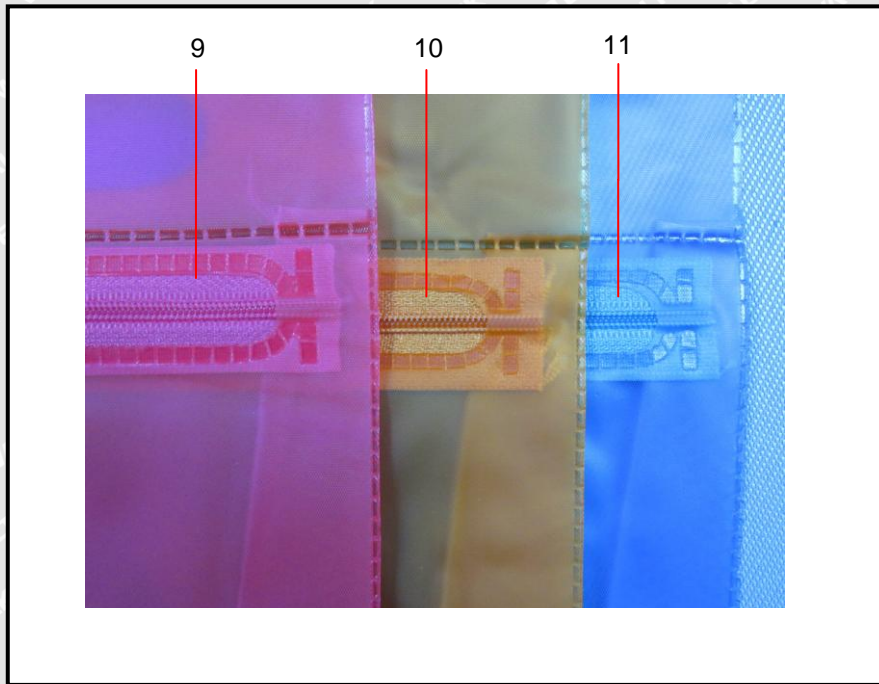
Sample photo:





Photograph of parts tested:





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



TEST REPORT

Reference No...... : WTF17F0373347C
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..... : 105307
Sample Name..... : PVC bag
Model No...... : IT2558
Test Requested..... : 1) According to Annex XVII Items 4 of the REACH Regulation (EC) No.1907/2006, to determine the Tris (2,3-dibromopropyl) phosphate (TDBPP) content in the submitted sample
2) According to Annex XVII Items 7 of the REACH Regulation (EC) No.1907/2006, to determine the Tris (aziridinyl) phosphin oxide (TEPA) content in the submitted sample
Test Method..... : Please refer to next page (s)
Date of Receipt sample..... : 2017-03-13
Date of Test..... : 2017-03-13 to 2017-03-21
Date of Issue..... : 2017-03-22
Test Result..... : Please refer to next page (s)

Remarks:

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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:

Dino Zhang

Dino.Zhang / Project Engineer

Approved by:



Jackson Zhou

Jackson.Zhou/ Lab Manager

**Test Result:**

Test Method: With reference to EPA 3550C:2007, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) and Liquid Chromatography Mass Spectrometer (LCMS)

Test Item	CAS No.	Unit	Result	MDL	Limit
			No.1+ No.2 +No.3		
Tris (2,3 dibromopropyl) phosphate (TDBPP)	126-72-7	mg/kg	ND*	5	ND
Tris(aziridinyl)phosphin oxide (TEPA)	545-55-1	mg/kg	ND*	5	ND
Conclusion	--	--	Pass	--	--

Test Item	CAS No.	Unit	Result	MDL	Limit
			No.4+ No.5		
Tris (2,3 dibromopropyl) phosphate (TDBPP)	126-72-7	mg/kg	ND*	5	ND
Tris(aziridinyl)phosphin oxide (TEPA)	545-55-1	mg/kg	ND*	5	ND
Conclusion	--	--	Pass	--	--

Note:

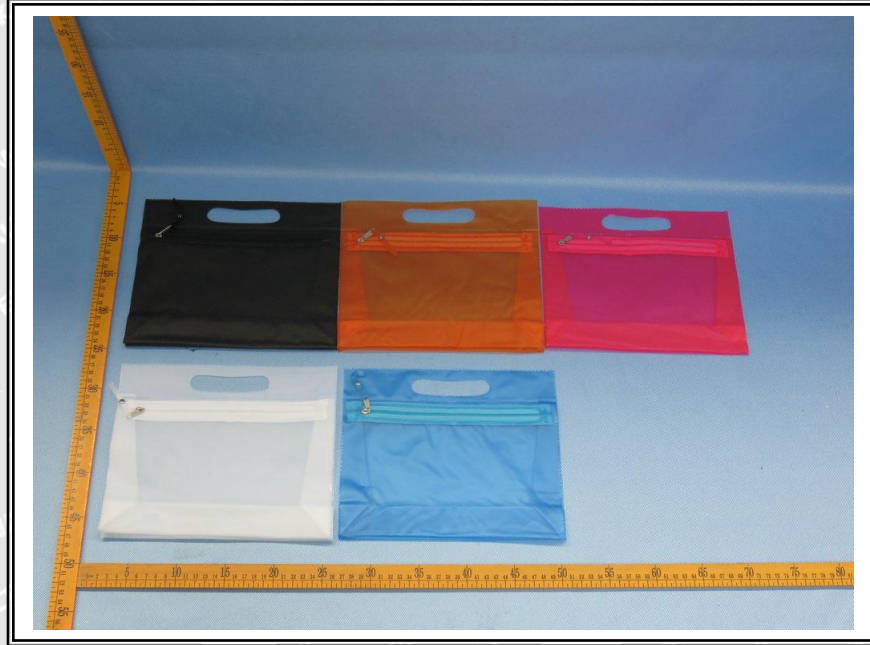
- (1) mg/kg =milligram per kilogram= ppm
- (2) ND = Not detected or lower the method detection limit
- (3) MDL=Method Detection Limit
- (4) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only

Description of Specimen:

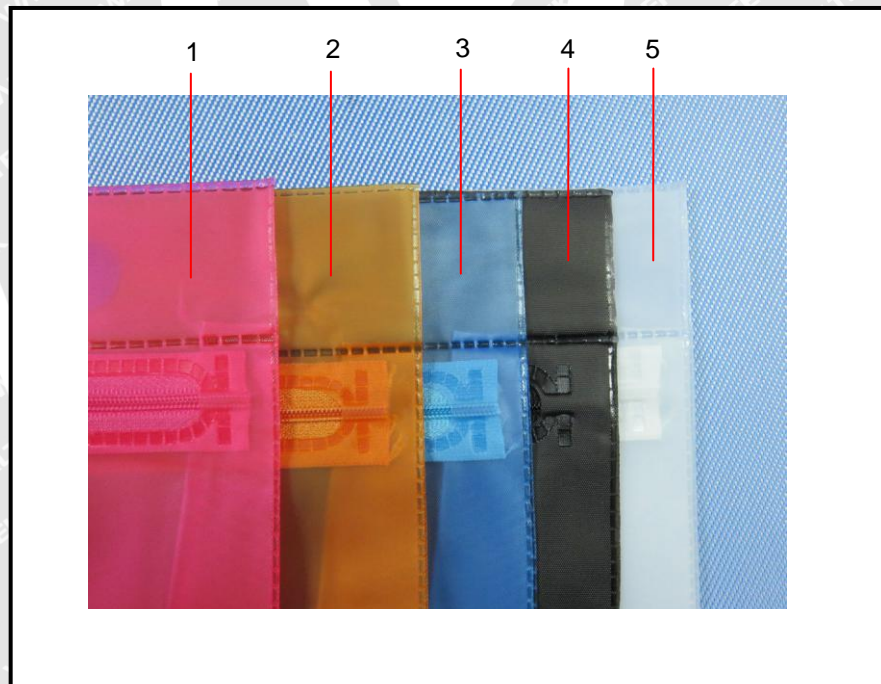
- No.1: Pink plastic bag
 No.2: Orange plastic bag
 No.3: Blue plastic bag
 No.4: Black plastic bag
 No.5: White plastic bag



Sample Photo:



Photograph of parts tested:



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