



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Reference No.** : WTF18F11128975C

**Applicant** : Mid Ocean Brands B.V.

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

**Manufacturer** : 105307

**Sample Name** : PVC tolit bag

**Model No.** : MO9627

**Test Requested** : 1) 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  
2) 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  
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

**Test Method** : Please refer to next page (s)

**Test Conclusion** : Please refer to next page (s)

**Date of Receipt sample** : 2018-11-13

**Date of Test** : 2018-11-13 to 2018-11-16

**Date of Issue** : 2018-11-16

**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:

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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 (mg/kg)	Results (mg/kg)			
		No.2	No.3	No.4	No.5
Cadmium(Cd)	2	ND	ND	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	MDL (mg/kg)	Results (mg/kg)			
		No.6	No.7	No.8	No.9
Cadmium(Cd)	2	ND	ND	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	MDL (mg/kg)	Results (mg/kg)		
		No.10	No.11	No.12
Cadmium(Cd)	2	ND	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	MDL (mg/kg)	Results (mg/kg)		
		No.13	No.14	No.15
Cadmium(Cd)	2	ND	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

**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

**2) 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.2	No.3	No.4	No.5	
Lead(Pb)	2	ND	ND	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

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

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.10	No.11	No.12	
Lead(Pb)	2	ND	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.13	No.14	No.15	
Lead(Pb)	2	ND	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

**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.





### 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.2	ND	ND	ND	ND	ND	ND	Pass
No.5	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.1	No.2	No.5	
Diisobutyl phthalate (DIBP)	50	ND	ND	ND	1000
Conclusion	--	Pass	Pass	Pass	--

#### Note:

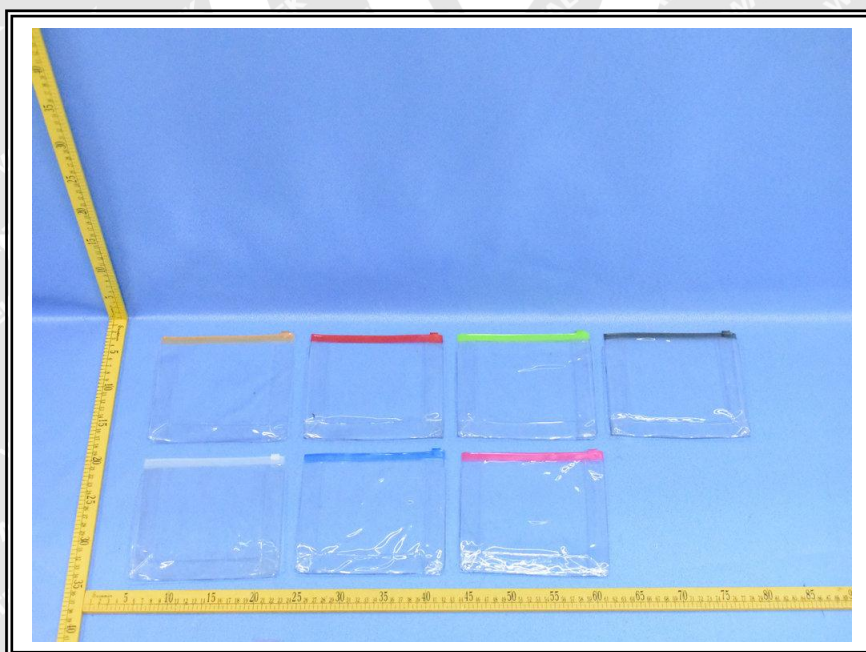
(1) mg/kg=milligram per kilogram=ppm

(2) ND = Not detected or Less than the method detection limit

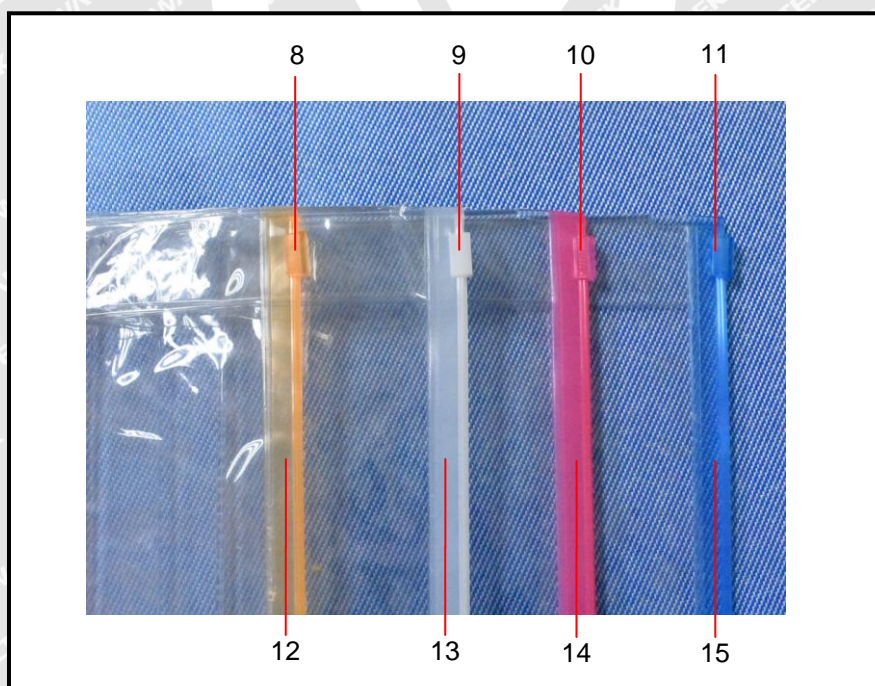
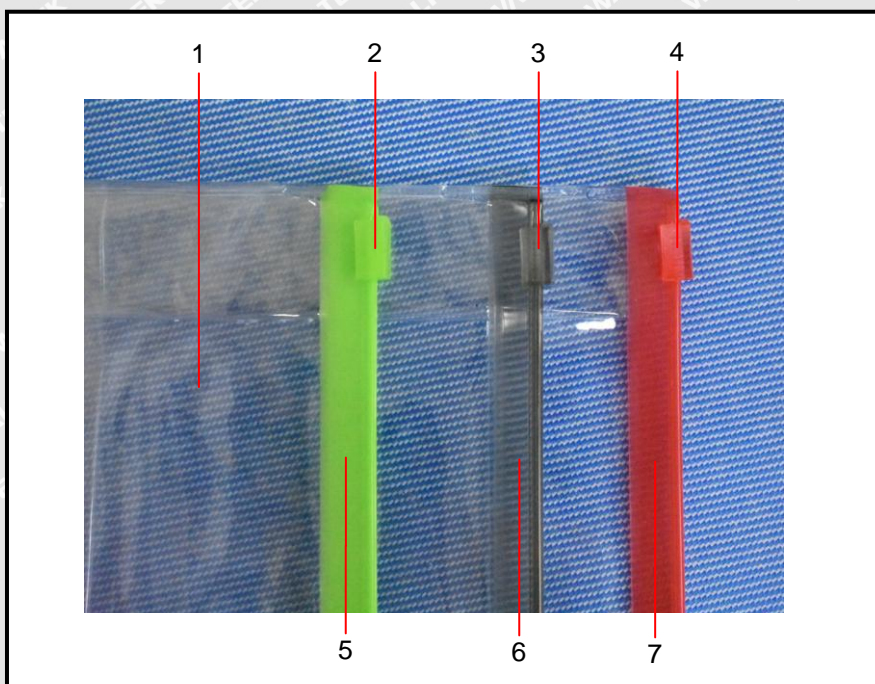
(3) MDL=Method Detection Limit

**Test Specimen Description:**

- No.1: Transparent plastic bag
- No.2: Green plastic buckle
- No.3: Black plastic buckle
- No.4: Red plastic buckle
- No.5: Green plastic sheet
- No.6: Black plastic sheet
- No.7: Red plastic sheet
- No.8: Orange plastic buckle
- No.9: White plastic buckle
- No.10: Pink plastic buckle
- No.11: Blue plastic buckle
- No.12: Orange plastic sheet
- No.13: White plastic sheet
- No.14: Pink plastic sheet
- No.15: Blue plastic sheet

**Sample photo:**



**Photographs of parts tested:**

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