



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Report No.** ..... : WTF22F03039685C

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

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

**Manufacturer** ..... : 114276

**Sample Name** ..... : Double wall bottle, RPET bottle

**Sample Model** ..... : MO9539, MO9939, MO9940

**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 & No.  
2018/2005

**Test Conclusion** ..... : Refer to next page (s)

**Date of Receipt sample** ..... : 2022-03-10

**Testing period** ..... : 2022-03-10 to 2022-03-17

**Date of Issue** ..... : 2022-03-21

**Test Result** ..... : Refer to next page (s)

## Prepared By:

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Signed for and on behalf of  
Waltek Testing Group (Foshan) Co., Ltd.

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Sample photo:







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### Test Results:

#### 1) Lead (Pb)

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

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.1+No.2+No.3	No.4+No.5+No.6	
Lead(Pb)	2	ND*	ND*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.7	No.8+No.16	No.9	
Lead(Pb)	2	ND	ND*	ND	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	LOQ (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	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.13+No.14	No.15+No.17	
Lead(Pb)	2	ND*	20*	500
Conclusion	--	Pass	Pass	--

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (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.



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## 2) Cadmium (Cd)

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

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.1+No.2+No.3	No.4+No.5+No.6
Cadmium(Cd)	2	ND*	ND*
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)		
		No.7	No.8+No.16	No.11
Cadmium(Cd)	2	ND	ND*	ND
Conclusion	--	Pass	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.13+No.14	No.15+No.17
Cadmium(Cd)	2	ND*	ND*
Conclusion	--	Pass	Pass

### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (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) "\*" = Results are calculated by the minimum weight of mixed components.



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### 3) Phthalates

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

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.1+No.2+No.3	No.4+No.5+No.6	
Benzyl butyl phthalate (BBP)	0.005	ND*	ND*	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	ND*	
Dibutyl phthalate (DBP)	0.005	ND*	ND*	
Diisobutyl phthalate (DIBP)	0.005	ND*	ND*	
Diisodecyl phthalate (DIDP)	0.01	ND*	ND*	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	ND*	
Di-n-octyl phthalate (DNOP)	0.005	ND*	ND*	
Conclusion	--	Pass	Pass	--

Test Items	LOQ (%)	Results (%)		Limit (%)
		No.7	No.8+No.16	
Benzyl butyl phthalate (BBP)	0.005	ND	ND*	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND*	
Dibutyl phthalate (DBP)	0.005	ND	ND*	
Diisobutyl phthalate (DIBP)	0.005	ND	ND*	
Diisodecyl phthalate (DIDP)	0.01	ND	ND*	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	ND*	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND*	
Conclusion	--	Pass	Pass	--





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Test Items	LOQ (%)	Results (%)		Limit (%)
		No.11	No.13+No.14	
Benzyl butyl phthalate (BBP)	0.005	ND	ND*	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND*	
Dibutyl phthalate (DBP)	0.005	ND	ND*	
Diisobutyl phthalate (DIBP)	0.005	ND	ND*	
Diisodecyl phthalate (DIDP)	0.01	ND	ND*	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	ND*	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND*	
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

Test Items	LOQ (%)	Results (%)	Limit (%)
		No.15+No.17	
Benzyl butyl phthalate (BBP)	0.005	ND*	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	
Dibutyl phthalate (DBP)	0.005	ND*	
Diisobutyl phthalate (DIBP)	0.005	ND*	
Diisodecyl phthalate (DIDP)	0.01	ND*	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND*	
Di-n-octyl phthalate (DNOP)	0.005	ND*	
Conclusion	--	Pass	--

**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 lower than limit of quantitation

(3) LOQ = Limit of quantitation

(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.

(6) "\*" = Results are calculated by the minimum weight of mixed components.

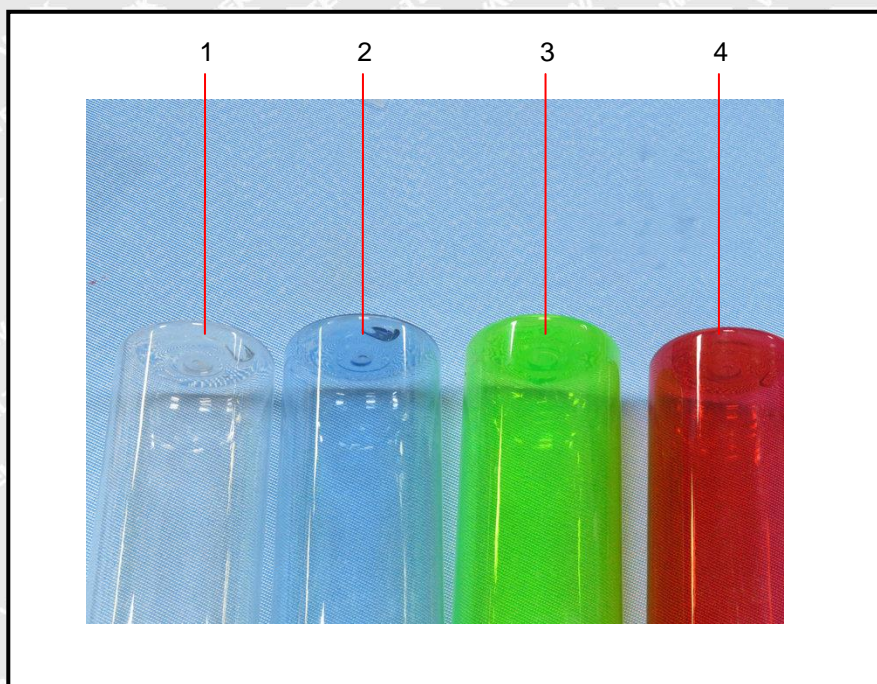


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**Description for Specimen:**

- No.1: Transparent plastic shell
- No.2: Sky blue transparent plastic shell
- No.3: Green transparent plastic shell
- No.4: Red transparent plastic shell
- No.5: Black transparent plastic shell
- No.6: Orange transparent plastic shell
- No.7: Blue transparent plastic shell
- No.8: Black rubber tape
- No.9: Silvery metal rivet
- No.10: Silvery metal cap
- No.11: Semi-transparent rubber gasket
- No.12: Silvery metal shell
- No.13: Black coating
- No.14: White coating
- No.15: Grey coating
- No.16: Grey rubber tape
- No.17: Blue coating

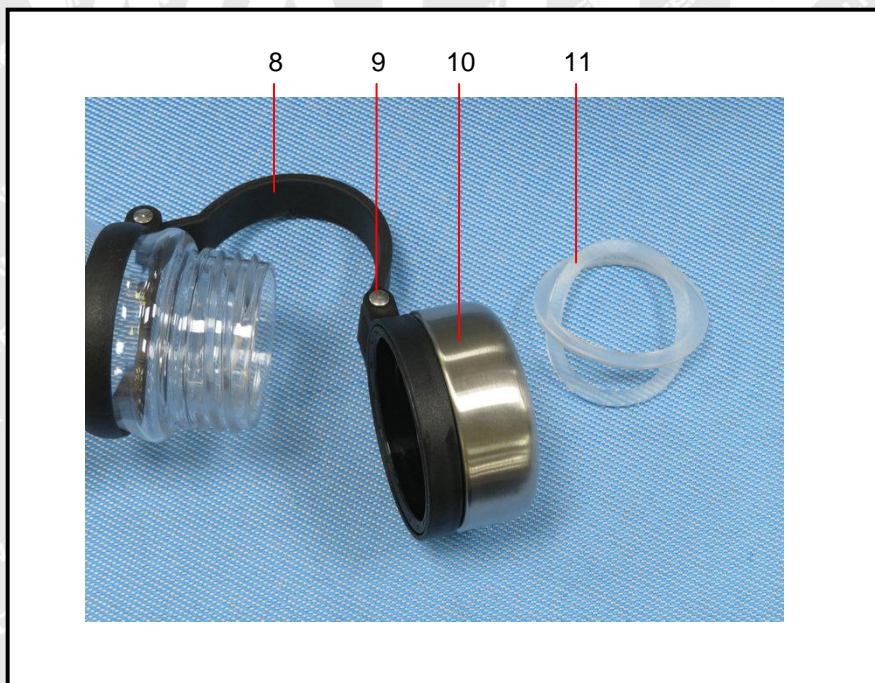
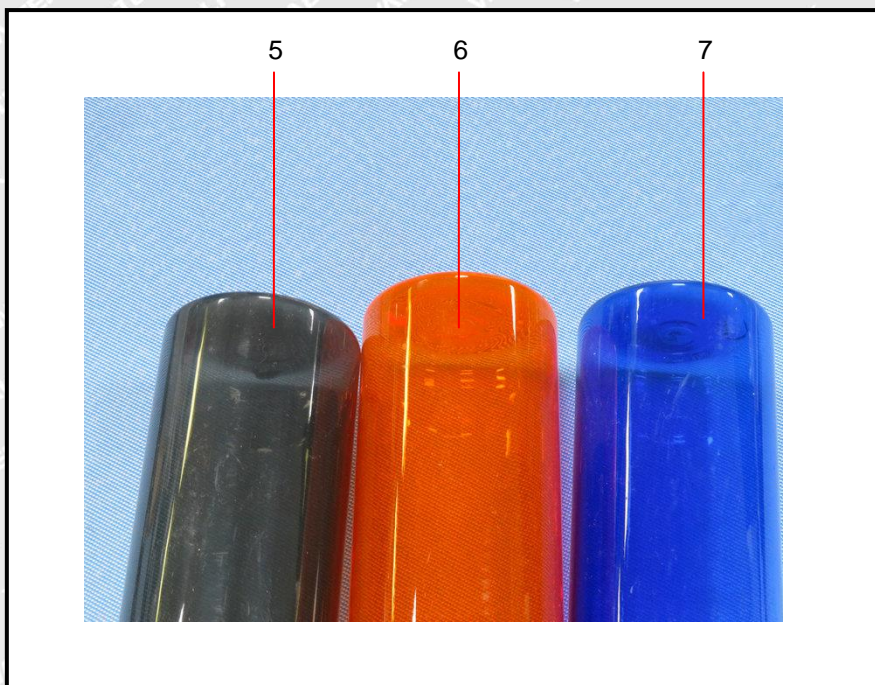
**Photograph of parts tested:**







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Remarks:

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

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