



TEST REPORT

Reference No. : WTF21F11124577A1C

Applicant: Mid Ocean Brands B.V.

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

Hong Kong

Manufacturer.....: 115663

Sample Name.....: Sunglasses with bamboo leg and pouch, Bamboo sunglasses with

bamboo case, Vintage sunglasses with bamboo black arms

Model No. : MO6450, MO6454, MO6492

Test Method Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample..... 2021-11-16 & 2021-12-08

Date of Test..... : 2021-11-16 to 2021-12-14

Date of Issue : 2021-12-17

Test Result: Please refer to next page (s)

Note : As specified by client, only test the designated sample.

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 compiler and approver. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific

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Test	Rec	ueste	d	
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- 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
- 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
- 4) Determination of specified Polycyclic Aromatic Hydrocarbons (PAHs) content in submitted sample in accordance with Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013.
- 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).
- 6) As specified by client, determination of the released formaldehyde content in submitted sample
- 7) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.



Reference No.: WTF21F11124577A1C

Test Result:



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

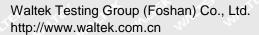
Test Item	LOQ	Results (mg/kg)			
	(mg/kg)	No.1+No.2+No.3	No.4	No.5+No.6+No.7	(mg/kg)
Lead(Pb)	2	ND*	ND	19*	500
Conclusion	Mury - Mur	Pass	Pass	Pass	liter -ni

Tool Home	LOQ	Res	Limit		
Test Item	(mg/kg)	No.8	No.9+No.10+No.13	(mg/kg)	
Lead(Pb)	2	of ND	120*	500	
Conclusion	mer - mer	Pass	Pass	WITE - W	

Took Home	LOQ	Results	Limit	
Test Item	(mg/kg)	No.11	No.12	(mg/kg)
Lead(Pb)	2 - 2	ND FEET MALE	Mer. Mr. ND Mr.	500
Conclusion	an an	Pass	Pass	LITER SIPLITE SIN

Test Item	LOQ	Res	Limit	
	(mg/kg)	No.14	No.15+No.16+No.17	(mg/kg)
Lead(Pb)	2 + 2	ND	ND*	500
Conclusion	W. Mr. Au	Pass	Pass	S JAIL

- (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.
- (6) The test samples of specimen No.5, No.6 and No.7 are received on the date of 2021-12-08.
- (7) The test samples of specimen No.12 is received on the date of 2021-11-16.







2) Cadmium (Cd)

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

Test Item	LOQ	Results (mg/kg)				LOQ Results (mg/kg)		The state of
	(mg/kg)	No.1+No.2+No.3	No.4	No.5+No.6+No.7				
Cadmium(Cd)	2	ND*	ND	ND*				
Conclusion	- 1/2 - 1/2	Pass	Pass	Pass				

Tool Hom	LOQ	Resu	ilts (mg/kg)
Test Item	(mg/kg)	No.8	No.9+No.10+No.13
Cadmium(Cd)	2	MILL WE NO THE THE	ND*
Conclusion	10 10	Pass	Pass

Took Hom	LOQ	Results	s (mg/kg)
Test Item	(mg/kg)	No.11	No.12
Cadmium(Cd)	2	WILL MUD WE AND	ND +
Conclusion	20-	Pass	Pass

- (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.
- (6) The test samples of specimen No.5, No.6 and No.7 are received on the date of 2021-12-08.
- (7) The test samples of specimen No.12 is received on the date of 2021-11-16.



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	(%)
Benzyl butyl phthalate (BBP)	0.005	ND*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	sum of four
Dibutyl phthalate (DBP)	0.005	ND*	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND*	h to the
Diisodecyl phthalate (DIDP)	0.01	ND*	LIFE WALL WALL W
Diisononyl phthalate (DINP)	0.01	ND*	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	MD*ND*	primalates < 0.1
Conclusion	11/2 - 11/4	Pass	THE OUTER MITE

Test Items	LOQ	TEX IN	Results (%)	INLIEK WINLIE	Limit	
	(%)	No.4	No.11	No.12	(%)	
Benzyl butyl phthalate (BBP)	0.005	ND	ND	ND		
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND	ND	sum of four	
Dibutyl phthalate (DBP)	0.005	ND	ND	ND	phthalates < 0.1	
Diisobutyl phthalate (DIBP)	0.005	ND	ND	ND	10 Th	
Diisodecyl phthalate (DIDP)	0.01	ND	ND	ND	White Murral	
Diisononyl phthalate (DINP)	0.01	ND	ND	ND	sum of three phthalates < 0.1	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND ND	ND	primalates < 0.1	
Conclusion	with a	Pass	Pass	Pass	UER RITER MITE	

Note:

DBP= Dibutyl phthalate BBDINP= Di-isononyl phthalate DI

BBP= Benzyl butyl phthalate DNOP= Di-n-octyl phthalate DEHP= Bis-(2-ethylhexyl)- phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl phthalate

- (1) % = percentage by weight
- (2) ND = Not detected or Less 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.
- (7) The test samples of specimen No.12 is received on the date of 2021-12-08.



4) Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AFPS GS 2019:01 PAK method, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS).

Test Items	Unit	Results No.1+No.2+No.3	LOQ	Limit
Benzo(a)anthracene (BaA)	mg/kg	ND*	0.2	1.0
Chrysene (CHR)	mg/kg	ND*	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND*	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND*	0.2	1.0
Conclusion	JEK- JE	Pass	- a	ىد - يد

Total Manua	Unit	Results			1.00	
Test Items		No.4	No.11	No.12	LOQ	Limit
Benzo(a)anthracene (BaA)	mg/kg	ND	ND	ND ND	0.2	1.0
Chrysene (CHR)	mg/kg	ND	ND	ND	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND	ND	ND	0.2	1.0
Benzo[k]fluoranthene (BkFA)	mg/kg	ND	ND	ND	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND	ND	ND	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND	ND	ND	0.2	1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND	- ND	ND	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND	ND	ND	0.2	1.0
Conclusion	<u></u>	Pass	Pass	Pass	WIT 1	Vr010

- (1) ND = Not Detected or less than limit of quantitation
- (2) mg/kg=milligram per kilogram=ppm
- (3) LOQ = Limit of quantitation
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.
- (6) "*" = Results are calculated by the minimum weight of mixed components.

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(7) The test samples of specimen No.12 is received on the date of 2021-11-16.

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	Result (mg/kg)	
			(mg/kg)	No.15+No.16+No.17	
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	MD*	
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*	
1/1/2	Conclusion	JE - JE	11 11 W	Pass	

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (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
- "*" = Results are calculated by the minimum weight of mixed components.



6) Formaldehyde

Test Method: With reference to EN717-3:1996, analysis was performed by UV-VIS

	LET SET SE	Result	30	Client's Limit
Test Item	Unit	No.8	LOQ	
Formaldehyde (CH ₂ O)	mg/kg	ND W	10	80
Conclusion	7 7 .	Pass	NITE SHITE	Whis - an

Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg =milligram per kilogram=ppm
- LOQ = Limit of quantitation

7) Colour Fastness to Rubbing

Colour Fastness to Rubbing							
(ISO 105-X12:	2016; Size of rubbing	g finger: 16mm dia	ameter.)	JE 3	E RUIT MUIT		
7	e de de	No.15	No.16	No.17	Client's Limit		
Length	Dry staining	4	4-5	4-5	2-3		
	Wet staining	4	4-5	4-5	2-3		
Width	Dry staining	4	4-5	4-5	2-3		
	Wet staining	4	4-5	4-5	2-3		
Conclusion		Pass	Pass	Pass			

Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Test Specimen Description:

No.1: Silvery plastic glasses

No.2: Black plastic glasses

No.3: Blue plastic glasses

No.4: Black plastic eyeglass frame

No.5: Silvery metal nails

No.6: Silvery metal eyeglass frame

No.7: Silvery metal holder

No.8: Yellow wooden holder

No.9: Silvery metal parts

No.10: Silvery metal screw

No.11: Black coating

No.12: Transparent plastic gasket

No.13: Silvery metal parts

No.14: White nylon

No.15: Black fabric bag

No.16: Blue fabric bag

No.17: Yellow fabric bag

Sample photo:













Photographs of parts tested:





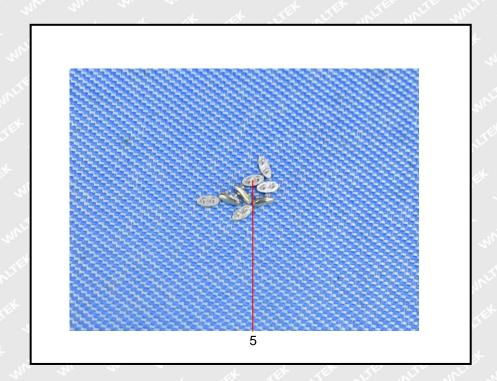




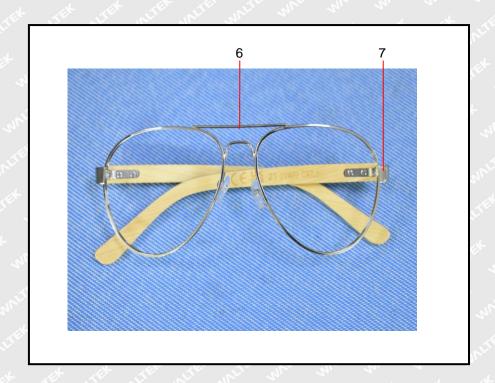


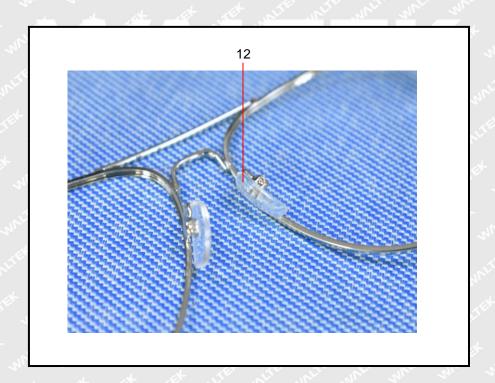












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