

Test Report

Report No. : AGC05443241202-001

SAMPLE NAME : Sunglasses, Sport sunglasses
MODEL NAME : MPSG01, MPSG02, MPSG03, MPSG04, MPSG05, MPSG11, MPSG13, MPSG14, MPSG21, MPSG31, MPSG32
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Dec. 10, 2024

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Applicant : MID OCEAN BRANDS B.V.
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Sunglasses, Sport sunglasses
Model : MPSG01, MPSG02, MPSG03, MPSG04, MPSG05, MPSG11, MPSG13, MPSG14, MPSG21, MPSG31, MPSG32
Vendor code : 116498
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Dec. 04, 2024
Testing Period : Dec. 04, 2024 to Dec. 09, 2024
Test Requested : Selected test(s) as requested by client.

Test Requested:**Conclusion**

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63
- Lead(Pb) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23
-Cadmium(Cd) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52
- Phthalates Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

- Formaldehyde Release

Pass

Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)
- Pentachlorophenol (PCP) Content

Pass

Approved by:



Suhongliang, Leon

Technical Director

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Dec. 10, 2024	Valid	Initial release

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The photo of the sample



The photo of AGC05443241202-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1+1-2+1-3	Black plastic frame(MPSG01)+ Pink plastic frame(MPSG02)+ White plastic frame(MPSG05)
1-4+1-5+1-6	White plastic leg(MPSG01)+ Pink plastic leg(MPSG05)+ Green plastic frame+leg(MPSG03)
1-7+1-8+1-9	Green plastic frame+leg(MPSG04)+ Blue plastic frame+leg(MPSG32)+ AC Smoke len(MPSG01)
1-10+1-11+1-12	AC Red mirrored len(MPSG01)+ AC Green mirrored len(MPSG02)+ AC Blue mirrored len(MPSG13)
1-13+1-14+1-15	AC Purple mirrored len(MPSG14)+ AC Silver mirrored len(MPSG21)+ PC Smoke len(MPSG31)
1-17+1-18+1-19	Cartoon printing(MPSG01)+ Pink cartoon printing(MPSG02)+ White cartoon printing(MPSG02)
1-20+1-21	White cartoon printing(MPSG11)+ Pink cartoon printing(MPSG21)
1-16	Bamboo leg(MPSG02)
1-22	Metal decoration on frame(MPSG01)
1-23	Metal decoration on leg(MPSG02)
1-24	Metal screw(MPSG01)
1-25	Black rubber(MPSG32)

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Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+ 1-3	1-4+1-5+ 1-6	1-7+1-8+ 1-9
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-10+1-11+ 1-12	1-13+1-14+ 1-15	1-17+1-18+ 1-19
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-20+1-21	1-16	1-22
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-23	1-24	1-25
Lead(Pb)	mg/kg	500	10	24	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-4+1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15,1-17+1-18+1-19,1-20+1-21

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+ 1-3	1-4+1-5+ 1-6	1-7+1-8+ 1-9
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

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Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-10+1-11+ 1-12	1-13+1-14+ 1-15	1-17+1-18+ 1-19
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-20+1-21	1-25
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Conclusion				Conformity	Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-4+1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15,1-17+1-18+1-19,1-20+1-21

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

- Phthalates Content

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+ 1-3	1-4+1-5+ 1-6	1-7+1-8+ 1-9
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.	N.D.
Sum of DIBP +DBP+BBP+DEHP	%	0.1	/	N.D.	N.D.	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-10+1-11+ 1-12	1-13+1-14+ 1-15	1-17+1-18+ 1-19
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.	N.D.

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Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-10+1-11+1-12	1-13+1-14+1-15	1-17+1-18+1-19
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.	N.D.
Sum of DIBP+DBP+BBP+DEHP	%	0.1	/	N.D.	N.D.	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-20+1-21	1-25
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.
Sum of DIBP+DBP+BBP+DEHP	%	0.1	/	N.D.	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.
Conclusion				Conformity	Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-4+1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15,1-17+1-18+1-19,1-20+1-21

Limit requirements of Phthalates

Toys and childcare articles	Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1%
Toys and childcare articles which can be placed in the mouth by children	The sum of DINP+DIDP+DNOP is less than 0.1%

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+ 1-3	1-4+1-5+ 1-6	1-7+1-8+ 1-9
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-10+1-11+ 1-12	1-13+1-14+ 1-15	1-17+1-18+ 1-19
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-20+1-21	1-25
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.
Conclusion				Conformity	Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-4+1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15,1-17+1-18+1-19,1-20+1-21

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Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	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	Toys, including activity toys, and childcare articles, 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
Benzo[a]pyrene(BaP)	50-32-8	≤ 1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

- Formaldehyde Release

Test Methods and Equipment: EN 717-3:1996; UV-Vis

Test Item(s)	Unit	Client's limit	MDL	Test Result(s)
				1-16
Formaldehyde Release	mg/kg	80	1	N.D.
Conclusion				Conformity

Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)

- Pentachlorophenol (PCP) Content

Test Methods and Equipment: EPA 3550C:2007 & EPA 8270E:2018; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-16
Pentachlorophenol (PCP)	mg/kg	5	5	N.D.
Conclusion				Conformity

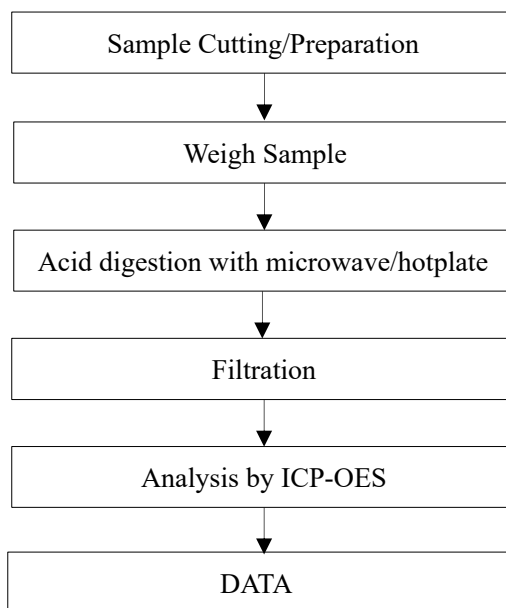
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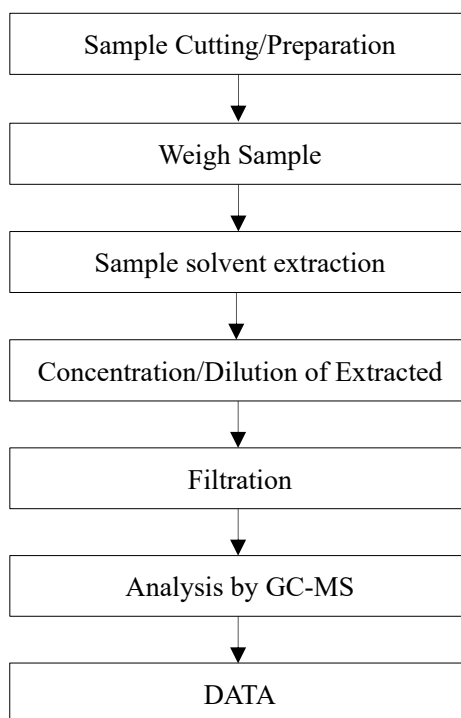
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Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates



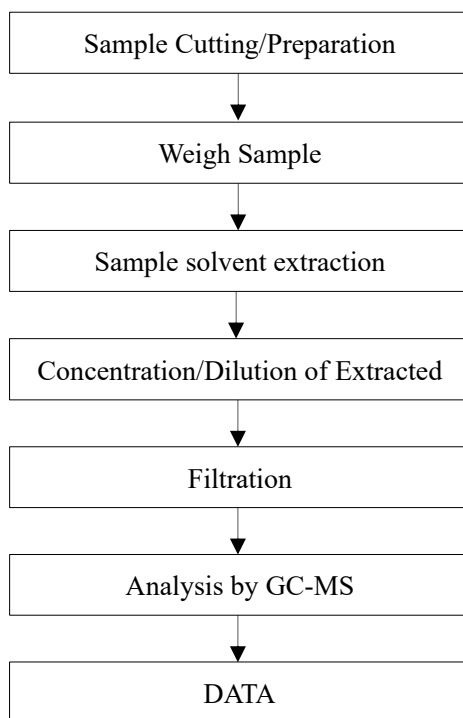
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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

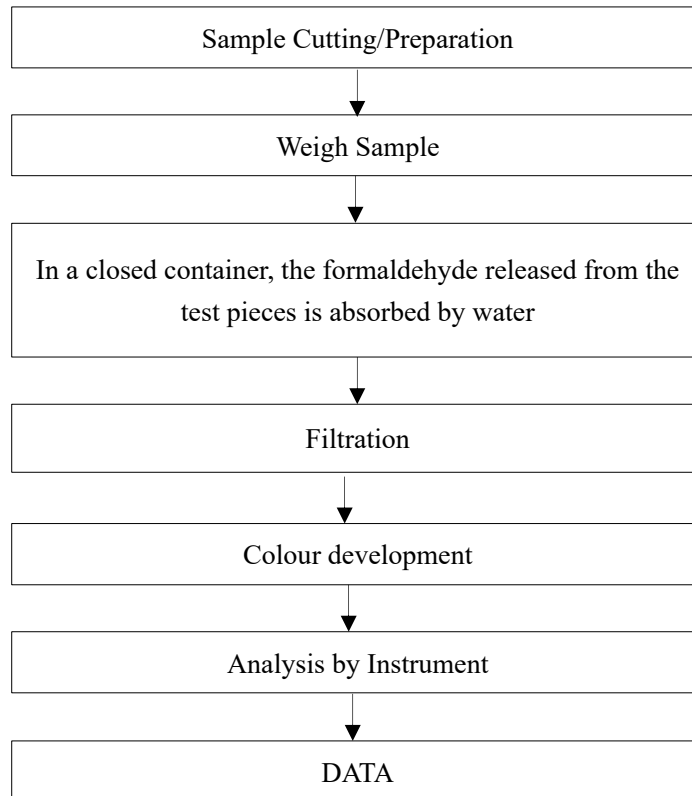


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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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Test Flow Chart of Formaldehyde Release

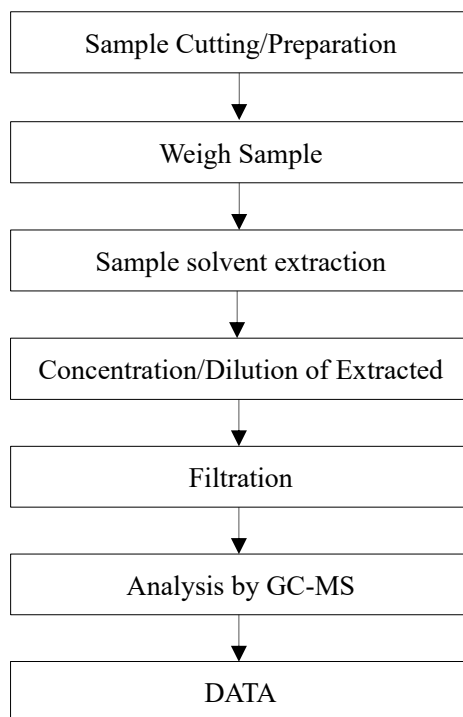
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Test Flow Chart of Pentachlorophenol (PCP)



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9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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Test Report

No.T32420360317SN

Date: Mar 06, 2025

Page 1 of 15

MID OCEAN BRANDS B.V.

7/F, KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG

The following samples were submitted and identified by/on behalf of the client as:

SUNGLASSES

Case No. : CA324203622089
Style / Item No. : MPSG01, MPSG02, MPSG03, MPSG04
Manufacturer : 116498
Country of Destination : EUROPE
Sample Receiving Date : DEC 17, 2024
Last Submission Sample : JAN 14, 2025 AND FEB 26, 2025
Date
Further information Date : JAN 14, 2025 AND JAN 24, 2025
Testing Period : DEC 17, 2024 TO JAN 21, 2025
JAN 24 TO JAN 28, 2025 AND
FEB 26 TO MAR 05, 2025

Test Requested	Conclusion
Eye and face protection — Sunglasses and related eyewear (EN ISO 12312-1:2013+A1:2015) (Excluding Clause 4.3 Physiological compatibility)	PASS (Category 3)
UV 400 Claim Verification	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS Hong Kong Ltd.

Wong Sun Leong, John
Senior Technical Services
Manager

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Test Results:
EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear.

Scope	: This part of ISO 12312 is applicable to all afocal (plano power) sunglasses and clip-ons for general use, including road use and driving, intended for protection against solar radiation. This part of ISO 12312 is not applicable to related eyewear, such as: a) eyewear for protection against radiation from artificial light sources, such as those used in solaria; b) eye protectors intended for specific sports (e.g. ski goggles or other types); c) sunglasses that have been medically prescribed for attenuating solar radiation; d) products intended for direct observation of the sun, such as for viewing a partial or annular solar eclipse; e) products intended for occupational eye protection.
No. of Specimen	: Style A & N: 1 pc. of each completed sunglasses + additional lenses F, G, L & M: 4 pcs. each of completed sunglasses
Filter Type	: Uniform filters
Conditioning before tests	: 23 ± 5°C, 4 hours
Test Condition	: 16 °C - 32 °C , 50 ± 20% RH
Test Result	: Details shown as following table:-
Remark	: Transmittance and Optical Properties are measured at reference point (visual centre)

<u>Test Item</u>	<u>Result</u>	<u>Note</u>
Clause 4 Construction and materials:		
Clause 4.1 Construction	PASS	--
Clause 4.2 Filter material and surface quality	PASS	--
Clause 4.3 Physiological compatibility	--	See Note 5
Clause 5 Transmittance		
Clause 5.2 Transmittance and filter categories^	PASS	See Note 1
Clause 5.3 General transmittance requirements	--	--
Clause 5.3.1 Uniformity of luminous transmittance^	PASS	--
Clause 5.3.2 Requirements for road use and driving^	PASS	--
Clause 5.3.2.1 General^	PASS	--
Clause 5.3.2.2 Driving in twilight or at night^	--	See Note 2
Clause 5.3.3 Wide angle scattering^	PASS	See Note 10
		--
Clause 5.3.4 Additional transmittance requirements for specific filter types	--	--
Clause 5.3.4.1 Photochromic filters^	N/A	See Note 3
Clause 5.3.4.2 Polarizing filters^	N/A	See Note 3
Clause 5.3.4.3 Gradient filters^	N/A	See Note 3
Clause 5.3.5 Claimed transmittance properties	--	--
Clause 5.3.5.1 Blue-light absorption/transmittance^	N/A	No claims, See Note 3
Clause 5.3.5.1.1 Blue-light absorption^	N/A	No claims, See Note 3
Clause 5.3.5.1.2 Blue-light transmittance^	N/A	No claims, See Note 3
		To be cont'd...

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EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear. (Cont'd)

<u>Test Item</u>	<u>Result</u>	<u>Note</u>
Clause 5 Transmittance		
Clause 5.3.5.2 UV absorption/transmittance	--	--
Clause 5.3.5.2.1 General	N/A	No claims, See Note 3
Clause 5.3.5.2.2 Solar UV absorption^	N/A	No claims, See Note 3
Clause 5.3.5.2.3 Solar UV transmittance^	N/A	No claims, See Note 3
Clause 5.3.5.2.4 Solar UV-A absorption^	N/A	No claims, See Note 3
Clause 5.3.5.2.5 Solar UV-A transmittance^	N/A	No claims, See Note 3
Clause 5.3.5.2.6 Solar UV-B absorption^	N/A	No claims, See Note 3
Clause 5.3.5.2.7 Solar UV-B transmittance	N/A	No claims, See Note 3
Clause 5.3.5.3 Antireflective coated sunglasses^	N/A	No claims, See Note 3
Clause 5.3.5.4 Enhanced infrared absorption^	N/A	No claims, See Note 3
Clause 6 Refractive power		
Clause 6.1 Spherical and astigmatic power^	PASS	--
Clause 6.2 Local variations in refractive power^	N/A	See Note 3
Clause 6.3 Prism imbalance (relative prism error)^	PASS	--
Clause 7 Robustness		
Clause 7.1 Minimum robustness of filters	PASS	--
Clause 7.2 Frame deformation and retention of filters^	PASS	See Note 6
Clause 7.3 Impact resistance of the filter, strength level 1 (optional specification)	N/C	Optional Specification, See Note 4
Clause 7.4 Increased endurance of sunglasses (optional specification)	N/C	Optional Specification, See Note 4
Clause 7.5 Resistance to perspiration (optional specification)	N/C	Optional Specification, See Note 4
Clause 7.6 Impact resistance of the filter, strength level 2 or 3 (optional specification)	N/C	Optional Specification, See Note 4
Clause 8 Resistance to solar radiation	PASS	--
Clause 9 Resistance to ignition	PASS	--
Clause 10 Resistance to abrasion (optional specification)	N/C	Optional Specification, See Note 4
Clause 11 Protective requirements		
Clause 11.1 Coverage area	PASS	--
Clause 11.2 Temporal protective requirements	N/A	See Note 3
Clause 12 Information and labelling		
Clause 12.1 Information to be supplied with each pair of sunglasses	PASS	--
Clause 12.2 Additional information	--	See Note 9

To be cont'd...

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EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear. (Cont'd)

Note(s) : # 1 Style A

The submitted sample is classified as Category **3**. The Category 3 claim information was provided on the labelling with sample.

Luminous transmittance, τ_v (%):

Left Filter 15.50 %

Right Filter 15.71 %

Style F

The submitted sample is classified as Category **3**. The Category 3 claim information was provided on the labelling with sample.

Luminous transmittance, τ_v (%):

Left Filter 10.85 %

Right Filter 11.27 %

Style G

The submitted sample is classified as Category **3**. The Category 3 claim information was provided on the labelling with sample.

Luminous transmittance, τ_v (%):

Left Filter 13.81 %

Right Filter 13.40 %

Style L

The submitted sample is classified as Category **3**. The Category 3 claim information was provided on the labelling with sample.

Luminous transmittance, τ_v (%):

Left Filter 14.71 %

Right Filter 14.41 %

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EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear. (Cont'd)
Style M

The submitted sample is classified as Category 3. The Category 3 claim information was provided on the labelling with sample.

Luminous transmittance, τ_v (%):

Left Filter 12.68 %

Right Filter 11.62 %

Style N

The submitted sample is classified as Category 3. The Category 3 claim information was provided on the labelling with sample.

Luminous transmittance, τ_v (%):

Left Filter 12.40 %

Right Filter 13.05 %

- # 2 The filter has a luminous transmittance of less than 75 % and higher than 8 %, the following warning: "Not suitable for driving in twilight or at night" or "Not suitable for driving at night or under condition of dull light" should be provided.
- # 3 "N/A" means not applicable for the submitted sample.
- # 4 "N/C" means not conducted on this report as client requested.
- # 5 Sunglasses shall be designed and manufactured in such a way that when used under the conditions and for the purposes intended, they will not compromise the health and safety of the wearer. The risks posed by substances leaking from the device that may come into prolonged contact with the skin shall be reduced by the manufacturer to below any regulatory limit. Special attention shall be given to substances which are allergenic, carcinogenic, mutagenic or toxic to reproduction.
- # 6 No fracture at any point observed, the deformation is below 2%.
- # 7 Only English version of labeling and packaging was reviewed in this report.
- # 8 Only English version of labeling and packaging was reviewed in this report. CE mark is required under Personal Protective Equipment Regulation (EU) 2016/425.
- # 9 The following information shall be available from the manufacturer on request.
 - a) An explanation of the trademarks that are not universally recognized or foreseen by the users of this part of ISO 12312.
 - b) The position of the reference point when different from the one defined in this part of ISO 12312.
 - c) The country of origin (e.g. "made in").
 - d) The nominal value of luminous transmittance.
 - e) Transmission requirements applicable to this product.
 - f) Polarization efficiency in cases of polarizing filters.
 - g) The base material of filters and frame.
- # 10 The sample was received on Feb 26, 2025.
- ^ According to Annex A of EN ISO 12311:2013, the item/sample/testing article has (not) complied with the requirements of EN ISO 12312-1: 2013 + A1: 2015 with the expanded measurement uncertainty with a 95% coverage probability, $w=U_{95}$).

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EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear. (Cont'd)
Table I. Category requirements for sunglare filters for general use

Description label	Filter category	Requirements			
		Ultraviolet spectral range		Visible spectral range	
		Maximum value of solar UV-B transmittance, τ_{SUVB}	Maximum value of solar UVA transmittance, τ_{SUVA}	Range of luminous transmittance, τ_V	
		280-315 nm	315-380 nm	From over %	To and include%
Light tint sunglasses	0	$0.05 \times \tau_V$	τ_V	80.0	100
	1			43.0	80.0
General purpose sunglasses	2	1.0% or $0.05 \times \tau_V$ (whichever is greater)	$0.5 \times \tau_V$	18.0	43.0
	3	1.0%		8.00	18.0
Very dark Special Purpose sunglasses	4	1.0%	1.0% or $0.25 \times \tau_V$ (whichever is greater)	3.00	8.00

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EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear. (Cont'd)
Table II. Information and labeling requirement

Clause	Test Item
12	Information and labelling
12.1	Information to be supplied with each pair of sunglasses. The manufacturer shall provide information for the user with each pair of sunglasses. This information shall be in the form of markings on the frame or separate information on labels, packaging, etc., that accompanies the sunglasses at the point of sale. Where pictograms are used, an explanation of the significance of these pictograms shall also be available. The use information shall contain following items: - Identification of model; - Name and address of the manufacturer; - Information of reference to EN ISO 12312; - Type of filter, if photochromic and/or polarizing; - Number of filter category, in both the faded and darkened states for photochromic filters, marked preferably on the frame or on the filter; - Description of the filter category in the form of a symbol and/or verbal description as given in below table 5. (Minimum height of the symbols shall be 5mm)

Table 5 — Description of filter categories and assigned symbols

Filter category	Description	Usage	Symbol
0	Light tint sunglasses	Very limited reduction of sunglare	 IEC 60417-5955
1		Limited protection against sunglare	 ISO 7000-2948
2	General purpose sunglasses	Good protection against sunglare	 ISO 7000-2949
3		High protection against sunglare	 ISO 7000-2950
4	Very dark special purpose sunglasses, very high sunglare reduction	Very high protection against extreme sunglare, e.g. at sea, over snowfields, on high mountains, or in desert	 ISO 7000-2951
NOTE The wording and/or the pictograms may be used.			

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EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear. (Cont'd)

Table II. Information and labeling requirement (Cont'd)

Clause	Test Item
12	Information and labelling
12.1	Information to be supplied with each pair of sunglasses. (Continued)
	g) Restrictions of use, which shall include at least the following: - not for direct observation of the sun; - not for protection against artificial light sources, e.g. solaria; - not for use as eye protection against mechanical impact hazards (for products not satisfying the requirements of 7.3 or 7.6); - any other restrictions deemed appropriate by the manufacturer, eg. increased or decreased transmittance of photochromic glasses due to high or low temperatures or to low light conditions.;
	h) when the filter does not meet the necessary requirements for driving and for filter category 4, the following warning: "Not suitable for driving and road use" in the form of the symbols shown in figure 2 and/or in writing. The minimum height of the symbol shall be 5 mm.



Figure 2 — Symbol: "Not suitable for driving and road use"

- i) When the filter has a luminous transmittance of less than 75% and higher than 8%, the following warning: "Not suitable for driving in twilight or at night" or "Not suitable for driving at night or under condition of dull light". The same warning applies to photochromic filters for which the luminous transmittance in faded conditions is less than 75%.

If relevant, instructions for care and cleaning if the wrong use of cleaning products might damage the sunglasses and a list of damaging products not suitable for cleaning.

12.2

Additional information.

The following information shall be available from the manufacturer on request.

- An explanation of the trademarks that are not universally recognized or foreseen by the users of this part of ISO 12312.
- The position of the reference point when different from the one defined in this part of ISO 12312.
- The country of origin (e.g. "made in").
- The nominal value of luminous transmittance.
- Transmission requirements applicable to this product.
- Polarization efficiency in cases of polarizing filters.
- The base material of filters and frame.

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UV 400 Claim Verification
Smoke Lenses – Style A, M and N

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	<0.5	<0.5	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	<0.5	<0.5	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.13	0.14	$\leq 0.5\%$

Green Mirrored Lenses - Style F

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.14	0.15	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.16	0.18	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.10	0.11	$\leq 0.5\%$

Red Mirrored – Style L

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.14	0.14	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.16	0.17	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.10	0.09	$\leq 0.5\%$

Note:

- Requirement is with reference to EN ISO 12312-1:2013+A1:2015
- According to Annex A of EN ISO 12311:2013, the item/sample/testing article has (not) complied with the requirements of EN ISO 12312-1: 2013 + A1: 2015 with the expanded measurement uncertainty with a 95% coverage probability, $w=U_{95}$.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Sample Photo:

Sample Picture (As received) on Jan 14, 2025 Pic.1	Sample Picture (As received) on Dec 17, 2024 Pic.2
	
Style A	Style F Style G
Sample Picture (As received) on Dec 17, 2024 Pic.7	Sample Picture (As received) on Jan 14, 2025 Pic.8
	
Style L Style M	Style N

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Artwork was provided by client on Jan 24, 2025

Pic.10

MOB / MP5G01
PO BOX 844, 6710 BP (NL)
PO: 41-XXXXXX
Made in China
EN ISO 12312-1:2013 + A1:2015
Regulation: (EU)2016/425
CAT.3: - High protection against sunglare.

EN

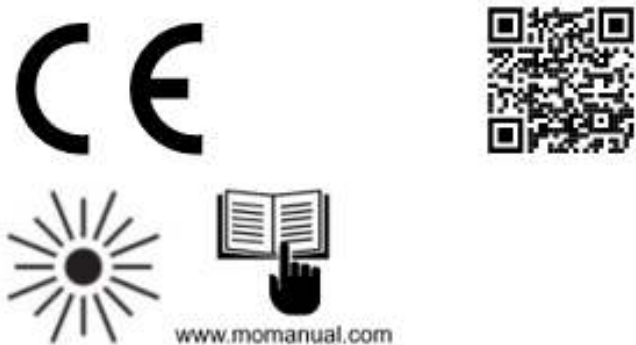
- Sunglasses should not be used for direct viewing of the sun.
- Not for protection against artificial light sources, e.g. solarium.
- Not for use as eye protection against mechanical impact hazards.

Care instruction:

- Be careful when wearing. Please use both hands to remove glasses and not with one hand, otherwise sunglasses are easy to deform.
- The cleaning method should be correct. When dirt and dust appear on the lens, microfiber lens cloth can be used to clean the lens.
- Place the glasses in a proper place. When sunglasses are not in use, try to wrap them with lens cloth and put them in a box for storage. Do not store with hard objects or objects with edges and corners to avoid scratching the lens.
- Keep away from chemicals, and try not to let sunglasses contact perfume, cosmetics and other things containing chemical ingredients, so as to avoid damage to sunglasses, which may lead to fading or deformation of the lens frame, and lens peeling. Once stained, please clean it up in time. In addition, if you sweat a lot, you should wipe it clean in time.

Warning:

- Not suitable for driving at night or under condition of dull light.



www.momanual.com

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Artwork was provided by client on Jan 24, 2025

Pic.11

MOB / MP5G02
PO BOX 644, 6710 BP (NL)
PO: 41-XXXXXX
Made in China
EN ISO 12312-1:2013 + A1:2015
Regulation: (EU)2016/425
CAT.3: - High protection against sunglare.

EN

- Sunglasses should not be used for direct viewing of the sun.
- Not for protection against artificial light sources, e.g. solaria.
- Not for use as eye protection against mechanical impact hazards.

Care instruction:

- Be careful when wearing. Please use both hands to remove glasses and not with one hand, otherwise sunglasses are easy to deform.
- The cleaning method should be correct. When dirt and dust appear on the lens, microfiber lens cloth can be used to clean the lens.
- Place the glasses in a proper place. When sunglasses are not in use, try to wrap them with lens cloth and put them in a box for storage. Do not store with hard objects or objects with edges and corners to avoid scratching the lens.
- Keep away from chemicals, and try not to let sunglasses contact perfume, cosmetics and other things containing chemical ingredients, so as to avoid damage to sunglasses, which may lead to fading or deformation of the lens frame, and lens peeling. Once stained, please clean it up in time. In addition, if you sweat a lot, you should wipe it clean in time.

Warning:

- Not suitable for driving at night or under condition of dull light.



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Artwork was provided by client on Jan 24, 2025

Pic.12

MOB / MP5G03
PO BOX 644, 6710 BP (NL)
PO: 41-XXXXXX
Made in China
EN ISO 12312-1:2013 + A1:2015
Regulation: (EU)2016/425
CAT.3: - High protection against sunglare.

EN

- Sunglasses should not be used for direct viewing of the sun.
- Not for protection against artificial light sources, e.g. solarium.
- Not for use as eye protection against mechanical impact hazards.

Care instruction:

- Be careful when wearing. Please use both hands to remove glasses and not with one hand, otherwise sunglasses are easy to deform.
- The cleaning method should be correct. When dirt and dust appear on the lens, microfiber lens cloth can be used to clean the lens.
- Place the glasses in a proper place. When sunglasses are not in use, try to wrap them with lens cloth and put them in a box for storage. Do not store with hard objects or objects with edges and corners to avoid scratching the lens.
- Keep away from chemicals, and try not to let sunglasses contact perfume, cosmetics and other things containing chemical ingredients, so as to avoid damage to sunglasses, which may lead to fading or deformation of the lens frame, and lens peeling. Once stained, please clean it up in time. In addition, if you sweat a lot, you should wipe it clean in time.

Warning:

- Not suitable for driving at night or under condition of dull light.


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Artwork was provided by client on Jan 24, 2025

Pic.13

MOB / MPSP04
PO BOX 844, 8710 BP (NL)
PO: 41-XXXXXX
Made in China
EN ISO 12312-1:2013 + A1:2015
Regulation: (EU)2016/425
CAT.3: - High protection against sunglare.

EN

- Sunglasses should not be used for direct viewing of the sun.
- Not for protection against artificial light sources, e.g. solaria.
- Not for use as eye protection against mechanical impact hazards.

Care instruction:

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- Keep away from chemicals, and try not to let sunglasses contact perfume, cosmetics and other things containing chemical ingredients, so as to avoid damage to sunglasses, which may lead to fading or deformation of the lens frame, and lens peeling. Once stained, please clean it up in time. In addition, if you sweat a lot, you should wipe it clean in time.

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SGS authenticate the photo on original report only

*** End of Report ***

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