

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

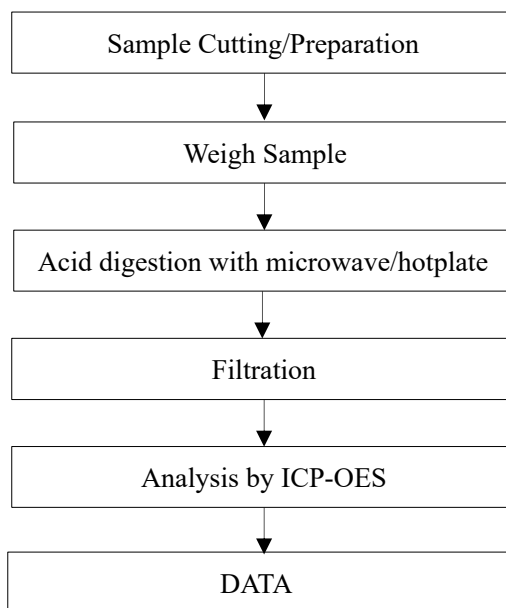
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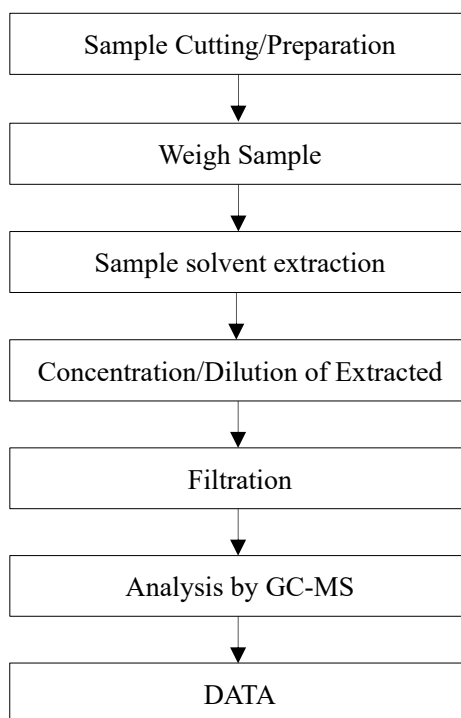
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Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates



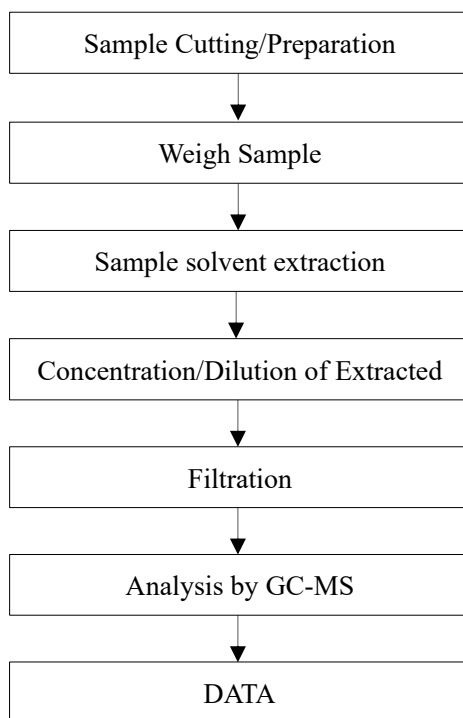
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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

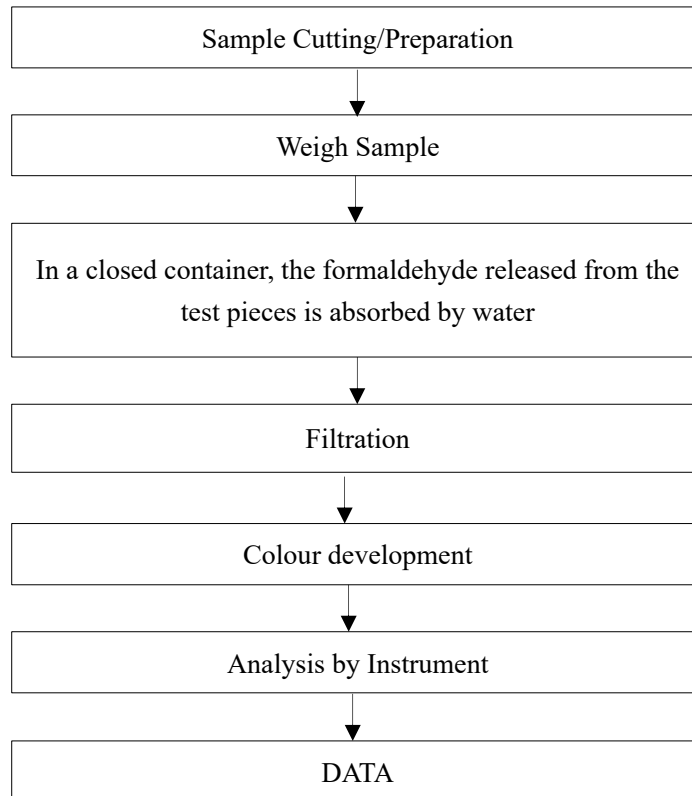


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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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Test Flow Chart of Formaldehyde Release

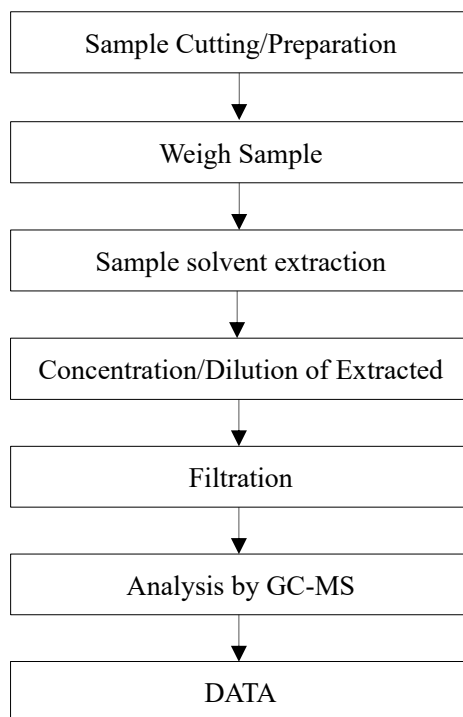
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Test Flow Chart of Pentachlorophenol (PCP)



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Test Report

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Date: Feb 11, 2025

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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:

SPORT SUNGLASSES

Case No. : CA324203618949
Style / Item No. : MPSG31, MPSG32
Manufacturer : 116498
Country of Destination : EUROPE
Sample Receiving Date : DEC 13, 2024
Further Information Date : JAN 13, 2025 AND JAN 28, 2025
Testing Period : DEC 13, 2024 – FEB 11, 2025
JAN 13 TO JAN 24, 2025 AND
JAN 28 TO FEB 05, 2025

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Test Report

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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)
ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Excluding ISO 12312-1: 2022 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 solariums; 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	: MPSG31: 4 pcs. of completed sunglasses for style A to D and MPSG32: 4 pcs. of completed sunglasses for style E to H
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	--
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	See Note 7
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 14.55 %

Right Filter 14.31 %

Style B

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 10.44 %

Right Filter 10.65 %

Style C

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 17.23 %

Right Filter 16.31 %

Style D

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 16.41 %

Right Filter 15.93 %

Style E

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 9.19 %

Right Filter 9.17 %

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 10.75 %

Right Filter 11.90 %

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EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear. (Cont'd)
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 16.63 %

Right Filter 17.10 %

Style H

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 14.48 %

Right Filter 13.98 %

- # 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 The labelling artworks were received on Jan 28, 2025.
- # 8 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.
- ^ 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 III. 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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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles

Scope	: This document is applicable to all nominally afocal (plano power) sunglasses for protection against environmental elements, such as solar radiation, wind, dust and rain when running, cycling and following similar active lifestyle recreational activities but not intended for competitive sporting activities where enhanced impact resistance is required. The document specifies additional material, design, performance and marking requirements. The other applicable requirements are given in ISO 12312-1. This type of sunglass is designed to reduce secondary hazards to the wearer in an accident rather than to provide high amounts of impact protection which may be difficult in a spectacle format. This document is not applicable to: 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 – see ISO 18527 (all parts); c) eye protectors for sports that include the use of a ball, stick, bat, racquet or other implement; d) sunglasses that have been medically prescribed for attenuating solar radiation; e) products intended for direct observation of the sun, such as for viewing a partial or annular solar eclipse, for which ISO 12312-2 applies; f) products intended for occupational eye protection – for example, see ISO 16321 (all parts).
No. of Specimen	: MPSG31: 4 pcs. of completed sunglasses for style A to D and MPSG32: 4 pcs. of completed sunglasses for style E to H
Filter Type	: Uniform filters
Conditioning before tests	: 23 ± 5°C, at least 4 hours
Test Condition	: 23 ± 5°C unless specified by the test method
Test Result	: Details shown as following table:-
Remark	: /

<u>Test Item</u>	<u>Result</u>	<u>Note</u>
Clause 4 Construction and materials		All requirements of ISO 12312-1:2022, Clause 4 shall apply.
- Construction	PASS	--
- Filter material and surface quality	PASS	--
- Physiological compatibility	--	See Note 14
- Headform	--	See Note 10
Clause 5 Transmittance		All requirements of ISO 12312-1:2022, Clause 5 shall apply.
- Transmittance and filter categories^	PASS	See Note 9
- General transmittance requirements	--	--
- Uniformity of luminous transmittance^	PASS	--
To be cont'd...		

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

Test Item	Result	Note
- Requirements for road use and driving^	PASS	--
☐ General^	PASS	--
☐ Driving in twilight or at night^	--	See Note 11
- Wide angle scattering^	PASS	--
- Additional transmittance requirements for specific filter types	--	--
- Photochromic filters^	N/A	See Note 13
- Polarizing filters^	N/A	See Note 13
- Gradient filters^	N/A	See Note 13
- Electro-optical sunglare filter, electro-optical sunglass filter	N/A	See Note 13
- Claimed transmittance properties	--	--
☐ Solar Blue-light absorption/transmittance^	N/A	No claims, See Note 13
☐ Solar Blue-light absorption^	N/A	No claims, See Note 13
☐ Solar Blue-light transmittance^	N/A	No claims, See Note 13
- UV absorption/transmittance	--	--
☐ General	N/A	No claims, See Note 13
☐ Solar UV absorption^	N/A	No claims, See Note 13
☐ Solar UV transmittance^	N/A	No claims, See Note 13
☐ Solar UV-A absorption^	N/A	No claims, See Note 13
☐ Solar UV-A transmittance^	N/A	No claims, See Note 13
☐ Solar UV-B absorption^	N/A	No claims, See Note 13
☐ Solar UV-B transmittance	N/A	No claims, See Note 13
- Antireflective coated sunglasses^	N/A	No claims, See Note 13
- Reduced reflection coated sunglasses^	N/A	No claims, See Note 13
- Enhanced infrared absorption^	N/A	No claims, See Note 13
Clause 6 Refractive power		All requirements of ISO 12312-1:2022, Clause 6 shall apply.
- Spherical and astigmatic power^	PASS	--
- Spatial deviation^	N/A	See Note 13
- Prism imbalance (relative prism error)^	PASS	--
Clause 7 Robustness		
Clause 7.1 Frame deformation and retention of filters^	PASS	See Note 16
Clause 7.2 Increased endurance of sunglasses	PASS	--
Clause 7.3 Resistance to perspiration	PASS	--
Clause 7.4 Increased robustness of the sunglass, strength level 2	PASS	--
Clause 7.5 Impact resistance of the filter, strength level 3 (optional specification)	N/C	Optional Specification, See Note 14 To be cont'd...

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

<u>Test Item</u>	<u>Result</u>	<u>Note</u>
Clause 8 Resistance to solar radiation	PASS	--
Clause 9 Resistance to ignition	PASS	--
Clause 10 Resistance to abrasion (optional requirement)	N/C	Optional Specification, See Note 14
Clause 11 Resistance to fogging (optional requirement)	N/C	Optional Specification, See Note 14
Clause 12 Protective requirements		
Clause 12.1 Field of view and coverage area	PASS	--
Clause 12.2 Temporal protective requirements	N/A	See Note 13
Clause 13 Information and labelling		
Clause 13.1 Information to be supplied with each pair of sunglasses	PASS	See Note 17
Clause 13.2 Additional information	--	See Note 19

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

Note(s) : # 10 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 14.40 %

Right Filter 13.97 %

Style B

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 10.50 %

Right Filter 10.79 %

Style C

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 17.12 %

Right Filter 16.41 %

Style D

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 15.82 %

Right Filter 16.17 %

Style E

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 8.95 %

Right Filter 9.62 %

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 11.49 %

Right Filter 11.40 %

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

Note(s)

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 16.13 %

Right Filter 16.30 %

Style H

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 14.60 %

Right Filter 13.93 %

- # 11 Headform 1-M was used for the test methods where headform was required.
- # 12 Sunglass filters with a luminous transmittance of less than 75 % shall not be used in twilight or at night for road use (including driving).
- # 13 "N/A" means not applicable for the submitted sample.
- # 14 "N/C" means not conducted on this report as client requested.
- # 15 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.
- # 16 No fracture at any point observed, the deformation is below 2%.
- # 17 The labelling artworks were received on Jan 28, 2025.
- # 18 CE mark is required under Personal Protective Equipment Regulation (EU) 2016/425.
- # 19 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 document;
 - b) The position of the reference point when different from the one defined in this document;
 - c) Transmittance requirements applicable to this product;
 - d) Polarizing efficiency in cases of polarizing filters;
 - e) The base material of filters and frame.
- ^ According to Annex A of ISO 18526-2: 2022, the item/sample/testing article has (not) complied with the requirements of ISO 12312-3: 2022 with the expanded measurement uncertainty with a 95% coverage probability, $w=U_{95}$).

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

Table III. Category requirements for sunglare filters for general use (ISO 12312-1: 2022)

Usage	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_{VD65}
		280-315 nm	315-380 nm	380nm to 780nm
Very limited reduction of sunglare	0	0.05 τ_{VD65}	τ_{VD65}	$\tau_{\text{VD65}} > 80\%$
Limited protection from sunglare	1	0.05 τ_{VD65}	τ_{VD65}	$43\% < \tau_{\text{VD65}} \leq 80\%$
Good protection against sunglare	2	1.0% absolute or 0.05 τ_{VD65} , whichever is greater	0.5 τ_{VD65}	$18\% < \tau_{\text{VD65}} \leq 43\%$
High protection against sunglare	3	1.0% absolute	0.5 τ_{VD65}	$8\% < \tau_{\text{VD65}} \leq 18\%$
Very dark protection against extreme sunglare	4	1.0% absolute	1.0% absolute or 0.25 τ_{VD65} , whichever is greater	$3\% < \tau_{\text{VD65}} \leq 8\%$

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

Table IV. Information and labeling requirement

Clause	Test Item
13	Information and labelling
13.1	Information to be provided 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. NOTE Attention is drawn to national regulations with respect to the content of the user information. The user information shall contain following items: a) Identification of model; b) Name and address of the manufacturer; c) Reference to this document, i.e. ISO 12312-3:2022; d) Type of filter, if photochromic, polarizing, electro-optical or a combination of these; e) Number of the filter category (in both the faded and darkened states for photochromic filters and electro-optical filters). NOTE In some regions, i.e. Europe, regulations require this to be marked on the frame or on the filter. f) Description of the filter category in the form of a symbol and/or verbal description given in ISO 12312-1:2022, Table 6 in the usage column. The minimum height of the symbols shall be 5 mm;

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)
Table IV. Information and labeling requirement (Cont'd)

Clause	Test Item
13	Information and labelling
13.1	Information to be provided with each pair of sunglasses

Table 6 — Description of filter categories and assigned symbols

Filter category	Description	Usage	Symbol
0	Light tint sunglasses	Very limited reduction of sunglare Limited UV protection	 IEC 60417-5955
1		Limited protection against sunglare Moderate UV protection	 ISO 7000-2948
2	General purpose sunglasses	Good protection against sunglare Good UV protection	 ISO 7000-2949
3		High protection against sunglare Good UV protection	 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 Good UV protection	 ISO 7000-2951
NOTE 1 The wording and/or the pictograms can be used.			
NOTE 2 Where superior numerical claims are made according to 5.3.5.2.2 or 5.3.5.2.3, the UV information may be omitted.			

Table 6 - ISO 12312-1:2022, Description of the filter category and assigned symbols

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

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

Clause	Test Item
13	Information and labelling
13.1	Information to be supplied with each pair of sunglasses. (Continued) g) The letter "A" identifying the active lifestyle marked on sunglasses; h) The letter "N" identifying "Resistance to fogging" if applicable; i) Restrictions of use, which shall include at least the following: - not for direct observation of the sun; - not for protection against artificial radiation sources, e.g. solaria; - electro-optical sunglare filters/electro-optical sunglass filters are not for use by individuals who are susceptible to photosensitive seizures; - any other restrictions deemed appropriate to be communicated by the manufacturer, e.g. increased or decreased transmittance of photochromic sunglasses due to high or low temperatures or to reduced light conditions. j) When the filter does not meet the requirements for road use and driving or is a filter category 4, the following warning: "Not suitable for road use and driving" in the form of either of the symbols shown in Figure 1 and/or in writing. The minimum height of the symbol shall be 5 mm; k) When the filter has a luminous transmittance lower 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 the faded conditions is lower than 75 %; l) If relevant, instructions for care and cleaning. If the wrong choice of cleaning product could damage the sunglasses, then a list of damaging products not suitable for cleaning should be provided.



Figure 1 — Symbol: "Not suitable for road use and driving"

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ISO 12312-3:2022 Eye and face protection — Sunglasses and related eyewear — Part 3: Sunglasses for running, cycling and similar active lifestyles (Cont'd)

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

Clause	Test Item
13	Information and labelling
13.2	Additional information. 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 document; b) The position of the reference point when different from the one defined in this document; c) Transmittance requirements applicable to this product; d) Polarizing efficiency in cases of polarizing filters; e) The base material of filters and frame.

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UV 400 Claim Verification
Style A

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.08	0.08	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.10	0.09	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.06	0.05	$\leq 0.5\%$

Style B

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.10	0.12	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.12	0.14	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.08	0.08	$\leq 0.5\%$

Style C

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.16	0.18	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.20	0.21	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.11	0.12	$\leq 0.5\%$

Style D

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.17	0.18	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.20	0.22	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.12	0.13	$\leq 0.5\%$

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Style E

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.07	0.06	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.08	0.07	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.06	0.05	$\leq 0.5\%$

Style F

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.12	0.11	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.13	0.12	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.09	0.10	$\leq 0.5\%$

Style G

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.13	0.12	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.15	0.14	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.10	0.10	$\leq 0.5\%$

Style H

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.13	0.13	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.15	0.16	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.11	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 Dec 13, 2024



Style A

Style B

Style C

Style D



Style E

Style F

Style G

Style H

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Artwork provided by client on Jan 28, 2025

CE 25 UV400 CATEGORY 3 A

LEFT ARM INSIDE

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Artwork provided by client on Jan 28, 2025

MOB / MP5G31
PO BOX 844, 6710 BP (NL)
PO: 41-XXXXXX
Made in China
EN ISO 12312-1:2013 + A1:2015
ISO12312-3:2022
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.


www.momanual.com

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Artwork provided by client on Jan 28, 2025

MOB / MP3G32
PO BOX 844, 6710 BP (NL)
PO: 41-XXXXXX
Made in China
EN ISO 12312-1:2013 + A1:2015
ISO12312-3:2022
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.
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Care instruction:

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Warning:

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SGS authenticate the photo on original report only

*** End of Report ***

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