



Test Report

No.: T31920200155SN

Date: JAN 25, 2019

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MID OCEAN BRANDS B.V.
7/F, KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG

The test results of the frames are extracted from the test report number T31820290638SN, where the sample is claimed to be identical.

The test results of the silver and blue mirror lens are extracted from the test report number T31820300322SN, where the sample is claimed to be identical.

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

SUNGLASSES WITH BAMBOO FRAME

SGS Case No. : CA319202008439
 Style / Item No. : MO9617
 Manufacturer : 115663
 Country of Origin : CHINA
 Country of Destination : EUROPE
 Sample Receiving Date : NOV 21 AND DEC 11, 2018 AND JAN 18, 2019
 Test Performing Date : NOV 21 TO DEC 03, DEC 11 TO 21, 2018 AND JAN 18 TO 25, 2019

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Eye and face protection — Sunglasses and related eyewear (EN ISO 12312-1:2013+A1:2015) (Excluding Clause 4.3 Physiological compatibility and Clause 12 Information and Labelling)	PASS (Category 3)

Signed for and on behalf of
SGS Hong Kong Ltd.

Wong Sun Leong, John
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 : 12 pcs. (3 styles of filters) of completed sunglasses
Filter Type : Uniform filters
Conditioning : 23 ± 5°C, 4 hours before tests
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		
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

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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	--	--
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	N/C	See Note 4, 7
Clause 12.2 Additional information	--	See Note 9

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

- Note(s) : # 1 The submitted sample is classified as Category 3. The Category 3 claim was found on the sample.
- Luminous transmittance, τ_v (%): (silver mirror lens)
- | | | |
|--------------|-------|---|
| Left Filter | 10.60 | % |
| Right Filter | 10.93 | % |
- Luminous transmittance, τ_v (%): (blue mirror lens)
- | | | |
|--------------|-------|---|
| Left Filter | 14.60 | % |
| Right Filter | 14.39 | % |
- Luminous transmittance, τ_v (%): (yellow mirror lens)
(sample received on Jan 18, 2019)
- | | | |
|--------------|-------|---|
| Left Filter | 10.95 | % |
| Right Filter | 10.17 | % |
- # 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 No label was provided for reviewing in time of testing.
- # 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.

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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
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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Photo Appendix



*** End of Report ***

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Test Report

No.: T31820290639SN

Date: DEC 03, 2018

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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 on behalf of the client as:

SUNGLASSES WITH BAMBOO FRAME

SGS Case No. : CA318202935949
 Style / Item No. : MO9617
 Manufacturer : 115663
 Country of Origin : CHINA
 Country of Destination : EUROPE
 Sample Receiving Date : NOV 21, 2018
 Test Performing Date : NOV 21 TO DEC 03, 2018

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
UV 400 Claim Verification	PASS

Signed for and on behalf of
SGS Hong Kong Ltd.

Wong Sun Leong, John
Technical Services Manager

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Test Report

No.: T31820290639SN

Date: DEC 03, 2018

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Test Results :

UV 400 Claim Verification

Sample: yellow mirror lens

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.21	0.23	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.24	0.27	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.15	0.18	$\leq 0.5\%$

Sample: silver mirror lens

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.22	0.23	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.24	0.26	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.17	0.17	$\leq 0.5\%$

Sample: blue mirror lens

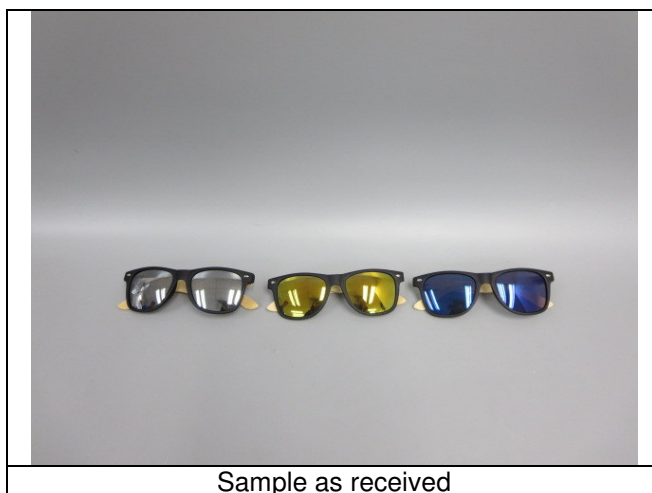
Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.29	0.26	$\leq 0.5\%$
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.34	0.30	$\leq 0.5\%$
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.21	0.20	$\leq 0.5\%$

Note: requirement is with reference to EN ISO 12312-1:2013+A1:2015

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