



# Test Report

No.T32120330315SN

Date: Dec 23, 2021

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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:

RPET SUNGLASSES

Case No. : CA321203320719  
Item No. : MO6531  
Manufacturer : 115663  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Receiving Date : DEC 15, 2021  
Testing Period : DEC 15 TO DEC 23, 2021

Test Requested	Conclusion
<b>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)</b>	PASS (Green Frame Style - Category 2)
<b>UV 400 Claim Verification</b>	PASS (Green Frame Style)

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

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

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

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 **Green Frame Style**  
 The submitted sample is classified as Category 2. The Category 2 claim was found on the sample.  
 Luminous transmittance,  $\tau_v$  (%):  
 Left Filter 18.63 %  
 Right Filter 18.36 %
- # 2 "N/A" means not applicable for the submitted sample.  
 # 3 "N/C" means not conducted on this report as client requested.  
 # 4 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.  
 # 5 No fracture at any point observed, the deformation is below 2%.  
 # 6 No label was provided for reviewing in time of testing.  
 # 7 CE mark is required under Personal Protective Equipment Regulation (EU) 2016/425.  
 # 8 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, $\tau_{SUVB}$	Maximum value of solar UVA transmittance, $\tau_{SUVA}$	Range of luminous transmittance, $\tau_V$	
		280-315 nm	315-380 nm	From over %	To and include%
Light tint sunglasses	0	$0.05 \times \tau_V$	$\tau_V$	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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**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
<b>12</b>	<b>Information and labelling</b>
12.1	<p>Information to be supplied with each pair of sunglasses.</p> <p>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.</p> <p>The use information shall contain following items:</p> <ol style="list-style-type: none"> <li>Identification of model;</li> <li>Name and address of the manufacturer;</li> <li>Information of reference to EN ISO 12312;</li> <li>Type of filter, if photochromic and/or polarizing;</li> <li>Number of filter category, in both the faded and darkened states for photochromic filters, marked preferably on the frame or on the filter;</li> <li>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)</li> </ol>

**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
<b>12</b>	<b>Information and labelling</b>
12.1	Information to be supplied with each pair of sunglasses. (Continued) g) Restrictions of use, which shall include at least the following: <ul style="list-style-type: none"> <li>- not for direct observation of the sun;</li> <li>- not for protection against artificial light sources, e.g. solaria;</li> <li>- not for use as eye protection against mechanical impact hazards (for products not satisfying the requirements of 7.3 or 7.6);</li> <li>- 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.;</li> </ul> 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"

12.2	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. Additional information. The following information shall be available from the manufacturer on request. <ul style="list-style-type: none"> <li>a) An explanation of the trademarks that are not universally recognized or foreseen by the users of this part of ISO 12312.</li> <li>b) The position of the reference point when different from the one defined in this part of ISO 12312.</li> <li>c) The country of origin (e.g. "made in .....").</li> <li>d) The nominal value of luminous transmittance.</li> <li>e) Transmission requirements applicable to this product.</li> <li>f) Polarization efficiency in cases of polarizing filters.</li> <li>g) The base material of filters and frame.</li> </ul>
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**UV 400 Claim Verification**

**Green Frame Style**

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

**Note:**

1. Requirement is with reference to EN ISO 12312-1:2013+A1:2015
2. 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,  $w=U_{95}$ ).

**Sample Photo:**



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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