

TEST REPORT

Applicant: MID OCEAN BRANDS B.V.
UNIT 711-716 7/F TOWER A
83 KING LAM STREET
CHEUNG SHA WAN KOWLOON
HONG KONG
Attn: DEREK HUI

Number: HKGH03397564

Date: Aug 26, 2026

Sample and Information provided by customer :

Item Name : **Sunglasses with mirrored lenses**
Item No. : **MO8652**
Quantity : 6 pairs
Vendor : 116003
Country of Origin : China

For and on behalf of :
Intertek Testing Services HK Ltd.



Dorothy M.Y. Lau
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) UV-400	Pass
(2) BS EN ISO 12312-1:2022+A11:2024	Pass

Eye and face protection – Sunglasses and related eyewear

– Part 1: Sunglasses for general use, excluding:

- Clause 4.3 - Physiological compatibility

- Clause 12.2 - Additional Information

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc..>

If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) UV-400

Test Method : Assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm - 400nm to ensure that a transmittance value of 0.5% was not exceeded.

Number of sample tested : One (1) pair.

Result :

Wavelength (nm)	Transmittance (%)	
	Left ocular	Right ocular
280	<0.10	<0.10
285	<0.10	<0.10
290	<0.10	<0.10
295	<0.10	0.12
300	<0.10	<0.10
305	<0.10	<0.10
310	<0.10	<0.10
315	<0.10	0.10
320	<0.10	<0.10
325	<0.10	0.15
330	0.14	0.12
335	0.20	0.29
340	0.20	0.19
345	<0.10	<0.10
350	0.15	0.27
355	<0.10	0.10
360	<0.10	0.15
365	<0.10	0.23
370	0.16	0.22
375	<0.10	0.21
380	0.16	0.11
385	<0.10	<0.10
390	<0.10	<0.10
395	<0.10	<0.10
400	<0.10	<0.10

Comment :The submitted sample was considered acceptable to make a claim of "UV 400" protection, the criteria of which was mentioned above.

Date sample received : Aug 14, 2026

Testing period : Aug 14, 2026 to Aug 21, 2026



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(2) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS EN ISO 12312-1:2022+A11:2024 – Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use

Number of samples tested: Four (4) pairs

Note :

- (1) The submitted sunglasses were declared by applicant for adult use.
- (2) Physiological compatibility
Note: 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.
- (3) CE marking or UKCA marking is not specified in BS EN ISO 12312-1:2022+A11:2024. However, per Regulation (EU) 2016/425 or UK2019 SI696 Schedule 35 Regulation 38, the CE marking or UKCA marking shall be affixed visibly, legibly and indelibly to the sunglasses frame respectively.

It was found that only CE marking was provided on the sunglasses frame.

Clause	Standard / Clause	Requirement	Result
4	ISO 12312-1	Construction and materials	
4.1	ISO 18526-3:2020, 6.1	Construction	P
4.2	ISO 18526-3:2020, 6.6	Filter material and surface quality	P
4.3	ISO 12312-1	Physiological compatibility	Note (2)
4.4	ISO 18526-4	Headforms	#1
5	ISO 18526-2:2020, 7	Transmittance	
5.2	ISO 12312-1	Transmittance and filter categories	P
5.3	ISO 12312-1	General transmittance requirements	
5.3.1	ISO 18526-2:2020, 7.4.1.4	Uniformity of luminous transmittance	P
5.3.2	ISO 12312-1, 5.3.2	Requirements for road use and driving	
5.3.2.1	ISO 12312-1, 5.3.2.1	General	P
5.3.2.1a	ISO 12312-1, 5.3.2.1a	Spectral transmittance	P
5.3.2.1b	ISO 18526-2:2020, 11	Detection of signal lights	P
5.3.2.2	ISO 18526-2:2020, 16.3.2	Road use (including driving) in twilight or at night	P
5.3.3	ISO 18526-2:2020, 14.1	Wide angle scatter	P
5.3.4	ISO 12312-1	Additional transmittance requirements for specific filter types	
5.3.4.1	ISO 18526-2:2020, 16	Photochromic filters	NA
5.3.4.2	ISO 18526-2:2020, 15	Polarizing filters	NA
5.3.4.3	ISO 12312-1	Gradient filters	NA
5.3.4.4	ISO 18526-2:2020, 17.11,	Electro-optical sunglare filter; electro-	NA



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Clause	Standard / Clause	Requirement	Result
	17.9 and 14.2	optical sunglass filter	
5.3.5	ISO 18526-2:2020, 7	Claimed transmittance properties	NA (No claim)
6	ISO 12312-1	Refractive power	
6.1	ISO 18526-1:2020, 6.1	Spherical and astigmatic power	P
6.2	ISO 18526-1:2020, 6.1	Spatial deviation	NA
6.3	ISO 18526-1:2020, 6.2	Prism imbalance (relative prism error)	P
7	ISO 12312-1	Robustness	
7.1	ISO 18526-3:2020, 7.2.1	Minimum robustness of filters	P
7.2	ISO 12311, 6	Frame deformation and retention of filters	P
7.3	ISO 18526-3:2020, 7.3.1	Impact resistance of sunglasses, strength level 1 (optional specification)	NA (No claim)
7.4	ISO 12311, 9.7	Increased endurance of sunglasses (optional specification)	NA (No claim)
7.5	ISO 12311, 9.10	Resistance to perspiration (optional specification)	NA (No claim)
7.6	ISO 18526-3:2020, 7.3.1 / 7.3.2	Impact resistance of sunglasses, strength level 2 or 3 (optional specification)	NA (No claim)
8	ISO 18526-3:2020, 6.8.2	Resistance to solar radiation	P
9	ISO 18526-3:2020, 6.10	Resistance to ignition	P
10	ISO 8980-5	Resistance to abrasion (optional specification)	NA (No claim)
11	ISO 12312-1	Protective requirements	
11.1	ISO 18526-4	Coverage area	P
11.2	ISO 12312-1	Temporal protective requirements	NA
12	ISO 12312-1	Information and labeling	
12.1	ISO 12312-1	Information to be supplied with each pair of sunglasses	P (Note 3)
12.2	ISO 12312-1	Additional information	#2

Abbreviation: P = Pass; NA = Not Applicable



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Test data:

5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm (T _{D65})	13.54	12.82	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T _{SUVB})	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T _{SUVA})	< 0.10	0.15	≤ 0.5T _{D65} (6.77)	≤ 0.5T _{D65} (6.41)

Requirement:

Consumer label	Technical label	Requirements		
Descriptive label	Filter category	Ultraviolet spectral range		Visible spectral range
		Maximum value of solar UV-B transmittance T _{SUVB} 280 nm to 315 nm	Maximum value of solar UV-A transmittance T _{SUVA} 315 nm to 380 nm	Range of luminous transmittance (T _{D65}) 380 nm to 780 nm
Very limited reduction of sunglare	0	0.05 T _{D65}	T _{D65}	T _{D65} > 80%
Limited protection from sunglare	1	0.05 T _{D65}	T _{D65}	43% < T _{D65} ≤ 80%
Good protection against sunglare	2	1.0% absolute or 0.05 T _{D65} , whichever is greater	0.5 T _{D65}	18% < T _{D65} ≤ 43%
High protection against sunglare	3	1.0% absolute	0.5 T _{D65}	8% < T _{D65} ≤ 18%
Very high protection against extreme sunglare, eg. at sea, over snowfields, on high mountain, or in desert	4	1.0% absolute	1.0% absolute or 0.25 T _{D65} , whichever is greater	3% < T _{D65} ≤ 8%



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5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	3.48	2.00	≤ 15
% difference between filters [relative to lighter filter]	5.30		≤ 15

5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.87	11.57	≥ 0.2 Tv _{D65} (2.71)	≥ 0.2 Tv _{D65} (2.56)

5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.01	1.00	≥ 0.80
Yellow	0.99	0.98	≥ 0.60
Blue	1.01	1.03	≥ 0.60
Green	1.02	1.02	≥ 0.60

5.3.3 Wide angle scatter

Wide angle scatter (%)	Left ocular	Right ocular	Requirement
	0.8	0.7	≤ 3

6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power (m ⁻¹)	-0.06	-0.05	± 0.12
Astigmatic power (m ⁻¹)	0.03	0.01	≤ 0.12
Difference of spherical power between left and right filters (m ⁻¹)	0.01		≤ 0.18

6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.025	≤ 1.00
	Base in	- -	≤ 0.25
Vertical		0.10	≤ 0.25



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8 Resistance to radiation

(a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+1.86	Requirement + 3% for category 0 + 5% for category 1 + 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	+1.92	

(b) Wide angle scattering after solar radiation

Left ocular (%)	Right ocular (%)	Requirement (%)
0.9	0.8	≤ 3

(c) After the solar radiation process, the submitted sample also met the requirement for the ultraviolet spectral range for Tv_{D65} as given by table 1 of the standard.

Remarks:

#1 - As per client request, 1-M headform was used for test.

#2 - 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 part document.
- c) Transmittance requirements applicable to this product.
- d) Polarizing efficiency in cases of polarizing filters.
- e) The base material of filters and frame.

NOTE - In some countries, the country of origin can be mandatory.

∞ - Decision rule required by the standard

If the measurement result plus or minus the uncertainty of measurement overlap the limit value of the test, the result shall be deemed to be a failure.

Date sample received : Aug 14, 2026

Testing period : Aug 14, 2026 to Aug 24, 2026



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End of report

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The observations and test results in this report are relevant to the sample(s) tested and submitted by client. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. This report does not discharge or release you from your legal obligations and duties to any other person. Only the Client is authorized to permit copying or distribution of this report and the report shall not be reproduced except in full. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



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Applicant: MID OCEAN BRANDS B.V.
UNIT 711-716 7/F TOWER A
83 KING LAM STREET
CHEUNG SHA WAN KOWLOON
HONG KONG

Number: HKGH0330934302

Date: Apr 02, 2026

Attn: DEREK HUI

Sample and Information provided by customer :

Item Name : **Sunglasses with mirrored lenses**
Item No. : **MO8652**
Quantity : 5 pieces per style
Vendor : 116003
Country of Origin : China
Date sample received : Nov 24, 2025, Dec 31, 2025, Jan 22, 2026
Testing period : Nov 24, 2025 to Jan 29, 2026

For and on behalf of :
Intertek Testing Services HK Ltd.

 

Dorothy M.Y. Lau
Vice President



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Number : HKGH0330934302

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) UV-400	Pass
(2) BS EN ISO 12312-1:2013+A1:2015 Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use, excluding: - Clause 4.3 - Physiological compatibility - Clause 12.2 - Additional information	Pass
(3) BS EN ISO 12312-1:2013+A1:2015 Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use, excluding: - Clause 4.3 - Physiological compatibility - Clause 12.2 - Additional information	Pass
(4) BS EN ISO 12312-1:2013+A1:2015 Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use, excluding: - Clause 4.3 - Physiological compatibility - Clause 12.2 - Additional information	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc..>

If decision rule already inlined in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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Number : HKGH0330934302

(1) UV-400

Test Method : Assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm - 400nm to ensure that a transmittance value of 0.5% was not exceeded.

Number of samples tested: One (1) pair per style; total three (3) styles.

Sample	Style
(A)	Yellow
(B)	Blue
(C)	Grey

Result :

Wavelength (nm)	Transmittance (%)					
	Sample (A)		Sample (B)		Sample (C)	
	Left ocular	Right ocular	Left ocular	Right ocular	Left ocular	Right ocular
280	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
285	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
290	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
295	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
300	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
305	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
310	<0.10	0.15	<0.10	<0.10	<0.10	<0.10
315	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
320	0.12	<0.10	<0.10	<0.10	<0.10	<0.10
325	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
330	0.11	<0.10	<0.10	<0.10	0.13	<0.10
335	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
340	<0.10	<0.10	<0.10	0.19	<0.10	0.12
345	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
350	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
355	<0.10	<0.10	<0.10	<0.10	<0.10	0.25
360	<0.10	<0.10	<0.10	0.17	<0.10	<0.10
365	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
370	<0.10	<0.10	0.16	0.18	<0.10	<0.10
375	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
380	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
385	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
390	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
395	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
400	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Comment :The submitted samples were considered acceptable to make a claim of "UV 400" protection.



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the criteria of which was mentioned above.

Date sample received : Nov 24, 2025, Dec 31, 2025, Jan 22, 2026

Testing period : Nov 24, 2025 to Jan 29, 2026

(2) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS EN ISO 12312-1:2013+A1:2015 – Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use

Test method refers ISO 12311:2013 Personal protective equipment - Test methods for sunglasses and related eyewear.

Number of samples tested: Four (4) pairs (Yellow)

Note :

- (1) The submitted sunglasses were declared by applicant for adult use.
- (2) Physiological compatibility
Note: 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.
- (3) CE marking or UKCA marking is not specified in BS EN ISO 12312-1:2013+A1:2015. However, per Regulation (EU) 2016/425 or UK2019 SI696 Schedule 35 Regulation 38, the CE marking or UKCA marking shall be affixed visibly, legibly and indelibly to the sunglasses frame respectively.

It was found that only CE marking was provided on the sunglasses frame.

Clause	Requirement	Result
4	Construction and materials	
4.1	Construction	P
4.2	Filter material and surface quality	P
4.3	Physiological compatibility	Note (2)
5	Transmittance	
5.2	Transmittance and filter categories	P
5.3	General transmittance requirements	
5.3.1	Uniformity of luminous transmittance	P
5.3.2.1a	Spectral transmittance	P
5.3.2.1b	Detection of signal lights	P
5.3.2.2	Driving in twilight or at night	P
5.3.3	Wide angle scattering	P



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Clause	Requirement	Result
5.3.4	Additional transmittance requirements for specific filter types	
5.3.4.1	Photochromic filters	NA
5.3.4.2	Polarizing filters	NA
5.3.4.3	Gradient filters	NA
5.3.5	Claimed transmittance properties	NA (No claim)
6	Refractive power	
6.1	Spherical and astigmatic power	P
6.2	Local variations in refractive power	NA
6.3	Prism imbalance (relative prism error)	P
7	Robustness	
7.1	Minimum robustness of filters	P
7.2	Frame deformation and retention of filters	P
7.3	Impact resistance of the filter, strength level 1 (optional specification)	NA (No claim)
7.4	Increased endurance of sunglasses (optional specification)	NA (No claim)
7.5	Resistance to perspiration (optional specification)	NA (No claim)
7.6	Impact resistance of the filter, strength level 2 or 3 (optional specification)	NA (No claim)
8	Resistance to solar radiation	P
9	Resistance to ignition	P
10	Resistance to abrasion (optional specification)	NA (No claim)
11	Protective requirements	
11.1	Coverage area	P
11.2	Temporal protective requirements	NA
12	Information and labeling	
12.1	Information to be supplied with each pair of sunglasses	P (Note 3)
12.2	Additional information	#1



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Abbreviation: P = Pass; NA = Not Applicable

Test data:

5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm (Tv)	9.88	9.97	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T _{SUVB})	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T _{SUVA})	< 0.10	< 0.10	≤ 0.5Tv (4.94)	≤ 0.5Tv (4.99)

Requirement:

Consumer label	Technical label	Requirements		
Descriptive label	Filter category	Ultraviolet spectral range		Visible spectral range
		Maximum value of solar UV-B transmittance T _{SUVB} 280 nm to 315 nm	Maximum value of solar UV-A transmittance T _{SUVA} 315 nm to 380 nm	Range of luminous transmittance (Tv) 380 nm to 780 nm
Light tint sunglasses	0	0.05 Tv	Tv	Tv > 80%
	1	0.05 Tv	Tv	43% < Tv ≤ 80%
General purpose sunglasses	2	1.0% absolute or 0.05 Tv, whichever is greater	0.5 Tv	18% < Tv ≤ 43%
	3	1.0% absolute	0.5 Tv	8% < Tv ≤ 18%
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or 0.25 Tv, whichever is greater	3% < Tv ≤ 8%

5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	4.29	3.11	≤ 10
% difference between filters [relative to lighter filter]	0.91		≤ 15



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5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	7.94	8.00	$\geq 0.2 T_v$ (1.98)	$\geq 0.2 T_v$ (1.99)

5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	0.96	0.96	≥ 0.80
Yellow	0.92	0.92	≥ 0.60
Blue	1.25	1.25	≥ 0.60
Green	1.01	1.01	≥ 0.60

5.3.3 Wide angle scattering

Wide angle scattering (%)	Left ocular	Right ocular	Requirement
	1.7	2.0	≤ 3

6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power (m^{-1})	-0.04	-0.06	± 0.12
Astigmatic power (m^{-1})	0.02	0.01	≤ 0.12
Difference of spherical power between left and right filters (m^{-1})	0.02		≤ 0.18

6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.10	≤ 1.00
	Base in	--	≤ 0.25
Vertical		0	≤ 0.25



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8 Resistance to radiation

(a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	-0.51	Requirement ± 3% for category 0 ± 5% for category 1 ± 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	-0.85	

(b) Wide angle scattering after solar radiation

Left ocular (%)	Right ocular (%)	Requirement (%)
1.9	1.5	≤ 3

(c) After the solar radiation process, the submitted sample also met the requirement for the ultraviolet spectral range for Tv as given by table 1 of the standard.

Remark:

#1 - 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.

∞ - Decision rule required by the standard

If the measurement result plus or minus the uncertainty of measurement overlap the limit value of the test, the result shall be deemed to be a failure.

Date sample received : Nov 24, 2025, Dec 31, 2025

Testing period : Nov 24, 2025 to Jan 19, 2026



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(3) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS EN ISO 12312-1:2013+A1:2015 – Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use

Test method refers ISO 12311:2013 Personal protective equipment - Test methods for sunglasses and related eyewear.

Number of samples tested: Four (4) pairs (Blue)

Note :

- (1) The submitted sunglasses were declared by applicant for adult use.
- (2) Physiological compatibility
Note: 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.
- (3) CE marking or UKCA marking is not specified in BS EN ISO 12312-1:2013+A1:2015. However, per Regulation (EU) 2016/425 or UK2019 SI696 Schedule 35 Regulation 38, the CE marking or UKCA marking shall be affixed visibly, legibly and indelibly to the sunglasses frame respectively.

It was found that only CE marking was provided on the sunglasses frame.

Clause	Requirement	Result
4	Construction and materials	
4.1	Construction	P
4.2	Filter material and surface quality	P
4.3	Physiological compatibility	Note (2)
5	Transmittance	
5.2	Transmittance and filter categories	P
5.3	General transmittance requirements	
5.3.1	Uniformity of luminous transmittance	P
5.3.2.1a	Spectral transmittance	P
5.3.2.1b	Detection of signal lights	P
5.3.2.2	Driving in twilight or at night	P
5.3.3	Wide angle scattering	P
5.3.4	Additional transmittance requirements for specific filter types	
5.3.4.1	Photochromic filters	NA
5.3.4.2	Polarizing filters	NA
5.3.4.3	Gradient filters	NA
5.3.5	Claimed transmittance properties	NA (No claim)



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Clause	Requirement	Result
6	Refractive power	
6.1	Spherical and astigmatic power	P
6.2	Local variations in refractive power	NA
6.3	Prism imbalance (relative prism error)	P
7	Robustness	
7.1	Minimum robustness of filters	P
7.2	Frame deformation and retention of filters	P
7.3	Impact resistance of the filter, strength level 1 (optional specification)	NA (No claim)
7.4	Increased endurance of sunglasses (optional specification)	NA (No claim)
7.5	Resistance to perspiration (optional specification)	NA (No claim)
7.6	Impact resistance of the filter, strength level 2 or 3 (optional specification)	NA (No claim)
8	Resistance to solar radiation	P
9	Resistance to ignition	P
10	Resistance to abrasion (optional specification)	NA (No claim)
11	Protective requirements	
11.1	Coverage area	P
11.2	Temporal protective requirements	NA
12	Information and labeling	
12.1	Information to be supplied with each pair of sunglasses	P (Note 3)
12.2	Additional information	#1

Abbreviation: P = Pass; NA = Not Applicable

Test data:

5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm (Tv)	13.85	14.22	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T _{SUVB})	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T _{SUVA})	< 0.10	< 0.10	≤ 0.5Tv (6.93)	≤ 0.5Tv (7.11)



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Requirement:

Consumer label	Technical label	Requirements		
Descriptive label	Filter category	Ultraviolet spectral range		Visible spectral range
		Maximum value of solar UV-B transmittance T_{SUVB} 280 nm to 315 nm	Maximum value of solar UV-A transmittance T_{SUVA} 315 nm to 380 nm	Range of luminous transmittance (T_v) 380 nm to 780 nm
Light tint sunglasses	0	0.05 T_v	T_v	$T_v > 80\%$
	1	0.05 T_v	T_v	$43\% < T_v \leq 80\%$
General purpose sunglasses	2	1.0% absolute or 0.05 T_v , whichever is greater	0.5 T_v	$18\% < T_v \leq 43\%$
	3	1.0% absolute	0.5 T_v	$8\% < T_v \leq 18\%$
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or 0.25 T_v , whichever is greater	$3\% < T_v \leq 8\%$

5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	4.67	4.44	≤ 10
% difference between filters [relative to lighter filter]	2.56		≤ 15

5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.07	11.45	$\geq 0.2 T_v$ (2.77)	$\geq 0.2 T_v$ (2.84)

5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.48	1.48	≥ 0.80
Yellow	1.13	1.13	≥ 0.60
Blue	0.99	0.99	≥ 0.60
Green	0.91	0.91	≥ 0.60

5.3.3 Wide angle scattering

Wide angle scattering (%)	Left ocular	Right ocular	Requirement
	1.2	1.3	≤ 3



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6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power (m^{-1})	-0.06	-0.08	± 0.12
Astigmatic power (m^{-1})	0	0.02	≤ 0.12
Difference of spherical power between left and right filters (m^{-1})	0.02		≤ 0.18

6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.05	≤ 1.00
	Base in	--	≤ 0.25
Vertical		0.05	≤ 0.25

8 Resistance to radiation

(a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	-1.37	Requirement $\pm 3\%$ for category 0 $\pm 5\%$ for category 1 $\pm 8\%$ for category 2 $\pm 10\%$ for categories 3 & 4
Right ocular (%)	-1.11	

(b) Wide angle scattering after solar radiation

Left ocular (%)	Right ocular (%)	Requirement (%)
1.3	1.7	≤ 3

(c) After the solar radiation process, the submitted sample also met the requirement for the ultraviolet spectral range for Tv as given by table 1 of the standard.



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Number : HKGH0330934302

Remark:

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

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

∞ - Decision rule required by the standard

If the measurement result plus or minus the uncertainty of measurement overlap the limit value of the test, the result shall be deemed to be a failure.

Date sample received : Nov 24, 2025, Dec 31, 2025

Testing period : Nov 24, 2025 to Jan 08, 2026



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Number : HKGH0330934302

(4) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS EN ISO 12312-1:2013+A1:2015 – Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use

Test method refers ISO 12311:2013 Personal protective equipment - Test methods for sunglasses and related eyewear.

Number of samples tested: Four (4) pairs (Grey)

Note :

- (1) The submitted sunglasses were declared by applicant for adult use.
- (2) Physiological compatibility
Note: 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.
- (3) CE marking or UKCA marking is not specified in BS EN ISO 12312-1:2013+A1:2015. However, per Regulation (EU) 2016/425 or UK2019 SI696 Schedule 35 Regulation 38, the CE marking or UKCA marking shall be affixed visibly, legibly and indelibly to the sunglasses frame respectively.

It was found that only CE marking was provided on the sunglasses frame.

Clause	Requirement	Result
4	Construction and materials	
4.1	Construction	P
4.2	Filter material and surface quality	P
4.3	Physiological compatibility	Note (2)
5	Transmittance	
5.2	Transmittance and filter categories	P
5.3	General transmittance requirements	
5.3.1	Uniformity of luminous transmittance	P
5.3.2.1a	Spectral transmittance	P
5.3.2.1b	Detection of signal lights	P
5.3.2.2	Driving in twilight or at night	P
5.3.3	Wide angle scattering	P
5.3.4	Additional transmittance requirements for specific filter types	
5.3.4.1	Photochromic filters	NA
5.3.4.2	Polarizing filters	NA
5.3.4.3	Gradient filters	NA
5.3.5	Claimed transmittance properties	NA (No claim)



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Number : HKGH0330934302

Clause	Requirement	Result
6	Refractive power	
6.1	Spherical and astigmatic power	P
6.2	Local variations in refractive power	NA
6.3	Prism imbalance (relative prism error)	P
7	Robustness	
7.1	Minimum robustness of filters	P
7.2	Frame deformation and retention of filters	P
7.3	Impact resistance of the filter, strength level 1 (optional specification)	NA (No claim)
7.4	Increased endurance of sunglasses (optional specification)	NA (No claim)
7.5	Resistance to perspiration (optional specification)	NA (No claim)
7.6	Impact resistance of the filter, strength level 2 or 3 (optional specification)	NA (No claim)
8	Resistance to solar radiation	P
9	Resistance to ignition	P
10	Resistance to abrasion (optional specification)	NA (No claim)
11	Protective requirements	
11.1	Coverage area	P
11.2	Temporal protective requirements	NA
12	Information and labeling	
12.1	Information to be supplied with each pair of sunglasses	P (Note 3)
12.2	Additional information	#1

Abbreviation: P = Pass; NA = Not Applicable



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Test data:

5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm (Tv)	12.59	11.87	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T _{SUVB})	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T _{SUVA})	< 0.10	< 0.10	≤ 0.5Tv (6.30)	≤ 0.5Tv (5.94)

Requirement:

Consumer label	Technical label	Requirements		
Descriptive label	Filter category	Ultraviolet spectral range		Visible spectral range
		Maximum value of solar UV-B transmittance T _{SUVB} 280 nm to 315 nm	Maximum value of solar UV-A transmittance T _{SUVA} 315 nm to 380 nm	Range of luminous transmittance (Tv) 380 nm to 780 nm
Light tint sunglasses	0	0.05 Tv	Tv	Tv > 80%
	1	0.05 Tv	Tv	43% < Tv ≤ 80%
General purpose sunglasses	2	1.0% absolute or 0.05 Tv, whichever is greater	0.5 Tv	18% < Tv ≤ 43%
	3	1.0% absolute	0.5 Tv	8% < Tv ≤ 18%
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or 0.25 Tv, whichever is greater	3% < Tv ≤ 8%

5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	7.54	5.02	≤ 10
% difference between filters [relative to lighter filter]	5.71		≤ 15



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TEST REPORT

Number : HKGH0330934302

5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.42	10.81	$\geq 0.2 T_v$ (2.52)	$\geq 0.2 T_v$ (2.37)

5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.14	1.14	≥ 0.80
Yellow	1.03	1.03	≥ 0.60
Blue	1.00	1.00	≥ 0.60
Green	0.98	0.98	≥ 0.60

5.3.3 Wide angle scattering

Wide angle scattering (%)	Left ocular	Right ocular	Requirement
	1.0	0.9	≤ 3

6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power (m^{-1})	-0.05	-0.05	± 0.12
Astigmatic power (m^{-1})	0.01	0.04	≤ 0.12
Difference of spherical power between left and right filters (m^{-1})	0		≤ 0.18

6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.10	≤ 1.00
	Base in	--	≤ 0.25
Vertical		0.05	≤ 0.25



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8 Resistance to radiation

(a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+1.01	Requirement ± 3% or category 0 ± 5% for category 1 ± 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	+1.11	

(b) Wide angle scattering after solar radiation

Left ocular (%)	Right ocular (%)	Requirement (%)
1.1	0.9	≤ 3

(c) After the solar radiation process, the submitted sample also met the requirement for the ultraviolet spectral range for Tv as given by table 1 of the standard.

Remark:

#1 - 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.

∞ - Decision rule required by the standard

If the measurement result plus or minus the uncertainty of measurement overlap the limit value of the test, the result shall be deemed to be a failure.

Date sample received : Nov 24, 2025

Testing period : Nov 24, 2025 to Nov 29, 2025



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Number : HKGH0330934302

HKGH0330934302-001



HKGH0330934302-002



HKGH0330934302-004



HKGH0330934302-005



End of report

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The observations and test results in this report are relevant to the sample(s) tested and submitted by client. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. This report does not discharge or release you from your legal obligations and duties to any other person. Only the Client is authorized to permit copying or distribution of this report and the report shall not be reproduced except in full. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



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Test Report

Report No. : AGC03778241201-004

SAMPLE NAME : Sunglasses with mirrored lenses
MODEL NAME : MO8652-22
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Jan. 02, 2025

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



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Report No.: AGC03778241201-004

Applicant : MID OCEAN BRANDS B.V.
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

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

Sample Name : Sunglasses with mirrored lenses
Model : MO8652-22
Vendor code : 101191
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Dec. 25, 2024
Testing Period : Dec. 25, 2024 to Jan. 02, 2025
Test Requested : Selected test(s) as requested by client.

Test Requested:

Conclusion

- EN ISO 12312-1: 2022 Eye and face protection — Sunglasses and related eyewear
Part 1: Sunglasses for general use exclude: Clause 12 Information and labeling

*Pass

-UV400 (In-house test, and test method refer to attached pages for details)

Pass

*The test results were given base on filter categories cat.3.

Approved by: 

Suhongliang, Leon

Technical Director

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Jan. 02, 2025	Valid	Initial release

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The photo of the sample



The photo of AGC03778241201-004 is for use only with the original report.

Test Point Description

Test point	Test point description
3	Sunglasses with mirrored lenses

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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.

Note: #1 The applicant's attention was drawn that the manufacturer should not use the frame materials which are known to cause irritation, allergic or toxic reaction during wear in a normal state of health against significant proportion of users. Sunglasses shall be designed, manufactured and packaged in such way that, when used under normal conditions, they will not compromise the health or safety of the wearer. The risks posed by substances leaking or evaporating from the sunglasses that can come into prolonged contact with the wearer shall be reduced by the manufacturer to within the limit of any applicable regulatory requirement. Special attention shall be given to substances that are allergenic, carcinogenic, mutagenic or toxic to reproduction. Substances recommended for cleaning, maintenance or disinfection shall be known to be unlikely to have any adverse effect upon the wearer, when applied in accordance with the instructions given in the information to be supplied by the manufacturer.

Manufacturers/suppliers shall perform an appropriate risk analysis on potentially harmful substances contained in the sunglasses that, when the sunglasses are used under normal conditions, the health (and safety) of the wearer shall not be compromised.

The following are examples of documents that represent the appropriate information:

- specification of the material(s);
- safety data sheets relating to the materials;
- information relating to the suitability of the materials for use in medical devices, or other relevant applications;
- information relating to toxicological, allergenic, c

REQUIREMENTS (According to ISO 12312-1)				TESTING	RESULT
Test item(s)			According to Clause	According to Clause	
Construction and materials	Construction		4.1	ISO 18526-3:2020, 6.1	P
	Filter material and surface quality		4.2	ISO 18526-3:2020, 6.6	P
	Physiological compatibility (only test Nickel release, refer to EN 16128 standard)		4.3	EN 16128:2015	NA
	Head forms	For adult's sunglasses: 1-M	4.4	ISO 18526-4	P
		For children's: 1-C6 or 1-C12			NA
Transmittance	Transmittance and filter categories	Filter categories	5.2	ISO 18526-2:2020, 7	Cat.3
		UV requirements			P
		Enhanced infrared absorption (If claim)			NA

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REQUIREMENTS (According to ISO 12312-1)					TESTING	RESULT
Test item(s)				According to Clause	According to Clause	
General transmittance requirements	Uniformity of luminous transmittance			5.3.1	ISO 18526-2:2020, 7	P
	Requirements for road use and driving	Filter categories		5.3.2.1	ISO 18526-2:2020, 7	P
		Spectral transmittance		5.3.2.1	ISO 18526-2:2020, 7	P
		Detection of signal lights		5.3.2.1	ISO 18526-2:2020, 11	P
		Road use (including driving) in twilight or at night		5.3.2.2	ISO 18526-2:2020, 16.3.2	NA
	Wide angle scattering			5.3.3	ISO 18526-2:2020, 14.1	P
	Additional transmittance requirements for specific filter types	Photochromic filters		5.3.4.1	ISO 18526-2:2020, 16.	NA
		Polarizing filters		5.3.4.2	ISO 18526-2:2020, 15	NA
		Gradient filters		5.3.4.3	ISO 18526-2:2020, 7	NA
		Electro-optical sun glare filter, electro-optical sunglass filter	General	5.3.4.4.1	ISO 18526-2:2020, 17.11 and Annex E.	NA
			Default mode	5.3.4.4.2	--	NA
			Reaction time	5.3.4.4.3	ISO 18526-2:2020, 17.1	NA
			Photosensitive seizures	5.3.4.4.4	--	NA
			Combined uniformity and angular dependence of luminous transmittance	5.3.4.4.5	ISO 18526-2:2020	NA
	Narrow angle scatter		5.3.4.4.6	ISO 18526-2:2020, 14.2	NA	
Claimed transmittance properties	Blue-light absorption/transmittance			5.3.5.1	ISO 18526-2:2020, 7	NA
	UV absorption/transmittance			5.3.5.2	ISO 18526-2:2020, 7	NA
	Antireflective coated sunglasses			5.3.5.3	ISO 18526-2:2020,13	NA
	Reduced reflection coated sunglasses			5.3.5.4	ISO 18526-2:2020,13	NA
	Enhanced infrared absorption			5.3.5.5	ISO 18526-2:2020, 7	NA

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

REQUIREMENTS (According to ISO 12312-1)			TESTING	RESULT
Test item(s)		According to Clause	According to Clause	
Refractive power	Spherical and astigmatic power	6.1	ISO 18526-1:2020, 6.1	P
	Spatial deviation(If during the measurements spherical and astigmatic power, a doubling or other aberration of the image is observed)	6.2	ISO 18526-1:2020, 6.3	NA
	Prism imbalance (relative prism error)	6.3	ISO 18526-2:2020, 6.2	P
Robustness	Minimum robustness of filters(remark: this test is not necessary if the sunglasses meet 7.3 or 7.6)	7.1	ISO 18526-3:2020, 7.2.1	P
	Frame deformation and retention of filters	7.2	ISO 12311, 6	P
	Impact resistance of sunglasses, strength level 1 (optional specification)	7.3	ISO 18526-3:2020, 7.3.1	NA
	Increased endurance of sunglasses (optional specification)	7.4	ISO 12311, 9.7	NA
	Resistance to perspiration(optional specification)	7.5	ISO 12311, 9.10	NA
	Impact resistance of sunglasses, strength level 2 (optional specification)	7.6	ISO 18526-3:2020, 7.3.1	NA
	Impact resistance of sunglasses, strength level 3 (optional specification)	7.6	ISO 18526-3:2020, 7.3.2	NA
Resistance to solar radiation		8	ISO 18526-3:2020, 6.8.2	P
Resistance to ignition		9	ISO 18526-3:2020, 6.10	P
Resistance to abrasion (Optional specification)		10	ISO 8980-5	NA
Protective requirements	Coverage area	11.1	--	P
	Temporal protective requirements(Apply for Cat.4)	11.2	--	NA
Information and labeling	Information to be supplied with each pair of sunglasses	12.1	--	NR
	Additional information	12.2	--	NR

Remark: P = Pass; F = Fail; NA = Not Applicable; NR=Not require; X=checked; Cat.=Category;
 τ_v =luminous transmittance

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1. Test Results

Construction — Clause 4.1 and Filter material and surface quality — Clause 4.2

Sample No.	Defects				Comment	Result(s)
	Construction		Filter Material and Surface Quality			
	Observed	Absent	Observed	Absent		
3		X		X	--	P

Requirements:

1. Construction: Areas of the sunglass, including the frame and, if in a rimless or semi-rimless style, the edges of the filters, that may come into contact with the wearer during intended use shall be smooth and without sharp projections.
2. Filter material and surface quality: Except in a marginal area 5 mm wide, sunglass filters shall have no material or machining defects within an area of 30 mm diameter centred on the reference point that could impair vision, e.g. bubbles, scratches, inclusions, dull spots, pitting, mould marks, notches, reinforced areas, specks, beads, water specks, pock marks, gas inclusions, splintering, cracks, polishing defects or undulations. If this 5 mm wide portion around the edge of the test sample intrudes into this circular area, then this intrusion shall be excluded from testing.

Transmittance and filter categories — Clause 5.2

Sample No.: 3				
Test Items	Requirements	Left	Right	Result(s)
τ_v (380~780)nm (%)	For Cat. 0: 80.0~100	14.0	15.3	Cat.3
	For Cat. 1: 43.0~80.0			
	For Cat. 2: 18.0~43.0			
	For Cat. 3: 8.0~18.0			
	For Cat. 4: 3.0~8.0			
Filter Cat	Claimed: Not Provided			
τ_{SUVB} (280~315)nm (%)	☐ For Cat. 0,1: $\leq 0.05\tau_{vD65}$ ☐ For Cat. 2: 1.0% absolute or $0.05\tau_{vD65}$ whichever is greater; ☒ For Cat. 3, 4: 1.0% absolute	0.0	0.0	P
τ_{SUVA} (315~380)nm (%)	☐ For Cat. 0, 1: $\leq \tau_{vD65}$; ☒ For Cat. 2, 3: $\leq 0.5\tau_{vD65}$ ☐ For Cat. 4: 1.0% absolute or $0.25\tau_{vD65}$ whichever is greater	0.0	0.0	P

Measurement Uncertainty (if necessary):

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Uniformity of luminous transmittance — Clause 5.3.1

Sample No.: 3				
Test Items	Requirements	Left	Right	Result(s)
Difference within filter (%) (relative to higher value)	The relative difference in the luminous transmittance value: ☒ For Cat. 0, 1, 2, 3: $\leq 15\%$ ☐ For Cat. 4: $\leq 20\%$	4.8	4.4	P
Difference with mounted filters (relative to higher value)(%)	The relative difference between the luminous transmittance value of the visual center for right and left eye : ☐ For gradient-tinted filters: $\leq 20\%$ ☒ For all other types: $\leq 15\%$	8.5		P

Measurement Uncertainty (if necessary):

Requirements for road use and driving — Clause 5.3.2

Sample No.: 3				
Test Items	Requirements	Left	Right	Result(s)
Categories	Filters suitable for road use and driving shall be of categories 0, 1, 2 or 3.	Cat.3	Cat.3	P
Spectral transmittance (475~650)nm (%)	$\geq 0.2\tau_{v D65}$	$0.93\tau_{v D65}$	$0.94\tau_{v D65}$	P
Red Signal	≥ 0.80	1.18	1.17	P
Yellow Signal	≥ 0.60	1.06	1.06	P
Green Signal	≥ 0.60	0.97	0.97	P
Blue Signal	≥ 0.60	1.01	1.00	P
Road use (including driving) in twilight or at night (%)	≥ 75.0	14.0	15.3	NA

Measurement Uncertainty (if necessary):

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Wide angle scattering — Clause 5.3.3

Sample No.	Wide Angle Scattering (%)		Result(s)
	Left	Right	
3	1.8	1.9	P
Requirements: At the reference point, the wide-angle scatter of the filters in the condition as supplied by the manufacturer shall not exceed the value of 3 %.			

Measurement Uncertainty (if necessary):

Spherical and astigmatic power— Clause 6.1

Sample No.:3				
Test Items	Requirements	Left	Right	Result(s)
Spherical Power (D)	$\pm 0.12D$	0.00	-0.04	P
	The difference between the spherical powers shall not exceed 0.18 D;	0.04		P
Astigmatic Power (D)	$\leq 0.12D$	0.00	0.00	P

Measurement Uncertainty (if necessary):

Prism imbalance (Relative prism error) — Clause 6.3

Sample No.	Requirements		Prism imbalance(cm/m)	Result
3	Horizontal	☒ Base Out: <1.00 cm/m	0.10	P
		☐ Base In: <0.25 cm/m		
	Vertical	<0.25 cm/m	0.03	

Measurement Uncertainty (if necessary):

Minimum robustness of filters — Clause 7.1

Sample No.	Defects		Comment	Result(s)
	Observed	Absent		
3		X	--	P
Requirements: None of the following defects shall appear on filters : 1. Filter fracture; 2. Filter deformation;				
Note: 1. For clip-ons neither a) nor b) are applicable. 2. This test is not necessary if the sunglasses meet Impact resistance of sunglasses, strength level 1, or level 2, or Level 3.				

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Frame deformation and retention of filters — Clause 7.2

Sample No.	Boxed Center Distance C (mm)	Residual Deformation X (mm)	Deformation Percentage Φ (%)	Structure		Lens Retention		Result(s)
				Pass	Fail	Pass	Fail	
3	74.60	0.00	0.0	X		X		P

Requirements:

1. Be permanently deformed from its original configuration by not more than 2% of the distance C., Deformation percentage Φ ; Calculation: $\Phi(\%) = X/C \times 100$
2. No fracture or crack at any point;
3. No filter shall be displaced from the frame.

Measurement Uncertainty (if necessary):

Resistance to Radiation — Clause 8

Sample No.: 3				
Test Items	Requirements	Left	Right	Result(s)
The relative change of luminous transmittance(%)	☐ For Cat.0: $< \pm 3\%$ ☐ For Cat.1: $< \pm 5\%$ ☐ For Cat.2: $< \pm 8\%$ ☒ For Cat.3&4: $< \pm 10\%$	0.0	-1.3	P
Wide angle scattering(%)	After exposure, the value of wide angle scattering shall not exceed the limit value of 3%;	1.9	1.9	P
τ_{SUVB} (280~315)nm(%)	☐ For Cat. 0,1: $\leq 0.05\tau_{\text{D65}}$ ☐ For Cat. 2: 1.0% absolute or $0.05\tau_{\text{D65}}$ whichever is greater; ☒ For Cat. 3, 4: 1.0% absolute	0.0	0.0	P
τ_{SUVA} (315~380)nm(%)	☐ For Cat. 0, 1: $\leq \tau_{\text{D65}}$; ☒ For Cat. 2, 3: $\leq 0.5\tau_{\text{D65}}$ ☐ For Cat. 4: 1.0% absolute or $0.25\tau_{\text{D65}}$ whichever is greater	0.0	0.0	P

Measurement Uncertainty (if necessary):

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Ignition — Clause 9

Sample No.	Continued Combustion		Comment	Result(s)
	Yes	No		
3		X	--	P
Requirements: The filters and frame shall be no continued combustion after withdrawal of the test rod.				

Coverage area — Clause 11.1

Sample No.: 3					
Test	Requirement		Left	Right	Result
Cover two ellipses	Sunglasses shall cover two ellipses, and symmetrically placed on each side of the centre of the bridge of the frame:		Meet	Meet	P
	☒ For Adults': - horizontal diameter: (40±1)mm - vertical diameter: (28±1) mm	☐ For Children': - horizontal diameter: (34±1)mm - vertical diameter: (24±1) mm			
*Prevent UV radiation	τ_{SUVB} (280~315) nm (%)	☐ For Cat. 0,1: $\leq 0.05\tau_{D65}$ ☐ For Cat. 2: 1.0% absolute or $0.05\tau_{D65}$ whichever is greater ☒ For Cat. 3, 4: 1.0% absolute	0.0	0.0	P
	τ_{SUVA} (315~380) nm (%)	☐ For Cat. 0,1: $\leq \tau_{D65}$ ☒ For Cat. 2,3: $\leq 0.5\tau_{D65}$ ☐ For Cat. 4: 1.0% absolute or $0.25\tau_{D65}$ whichever is greater;	0.0	0.0	P
Note: 1. Adults' headform: ☒ 1-M, PD=64mm ☐ As defined by the headform utilized, PD=()mm 2. Children's headform: ☐ 1-C6, PD= 52 mm ☐ 1-C12, PD=58mm.					

Measurement Uncertainty (if necessary):

Remark: *Prevent UV radiation measured point: Any point within specified two elliptical regions.

UV400 (In-house test, non- accredited test item)

Assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm - 400nm.

Sample Number	Wavelength (nm)	Maximum Spectral transmittance (%)		Result
		Left	Right	
3	280-400	0.0	0.0	P
Requirements: Maximum spectral transmittance shall not exceed 0.5%.				

Measurement Uncertainty (if necessary):

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
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.

*** End of Report ***

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