

## 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: HKGH03322381

Date: Jan 28, 2026

## Sample and Information provided by customer :

Item Name : Sport Sunglasses  
Item No. : MO2816  
Quantity : 8 pairs per style  
Vendor : 115663  
Country of Origin : China

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



Dorothy M.Y. Lau  
Vice President



Page 1 of 54



# TEST REPORT

Number : HKGH03322381

**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 ISO 12312-3:2022 Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles, excluding: - Clause 4 - Physiological compatibility - Clause 13.2 - Additional information	Pass
(3)	BS ISO 12312-3:2022 Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles, excluding: - Clause 4 - Physiological compatibility - Clause 13.2 - Additional information	Pass
(4)	BS ISO 12312-3:2022 Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles, excluding: - Clause 4 - Physiological compatibility - Clause 13.2 - Additional information	Pass
(5)	BS ISO 12312-3:2022 Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles, excluding: - Clause 4 - Physiological compatibility - Clause 13.2 - Additional information	Pass
(6)	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
(7)	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
(8)	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
(9)	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



Page 2 of 54



# TEST REPORT

Number : HKGH03322381

**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.qrd.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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Page 3 of 54



## TEST REPORT

Number : HKGH03322381

(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 two (4) styles.

Sample	Style
(A)	Blue
(B)	Black
(C)	Orange
(D)	Purple

Result :

Wavelength (nm)	Transmittance (%)							
	Sample (A)		Sample (B)		Sample (C)		Sample (D)	
	Left ocular	Right ocular	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	<0.10	<0.10
285	<0.10	<0.10	<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	<0.10	<0.10
295	<0.10	<0.10	<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	<0.10	<0.10
305	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
310	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
315	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
320	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	0.10	0.13
325	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10
330	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
335	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
340	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
345	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	<0.10
350	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
355	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
360	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	0.14	0.14
365	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
370	<0.10	<0.10	0.18	0.18	<0.10	<0.10	0.30	0.15
375	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11
380	<0.10	<0.10	<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	<0.10	<0.10
390	<0.10	<0.10	<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	<0.10	<0.10
400	0.16	0.15	<0.10	<0.10	0.11	<0.10	0.14	<0.10



Page 4 of 54



## TEST REPORT

Number : HKGH03322381

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

Date sample received : Jan 16, 2026  
Testing period : Jan 16, 2026 to Jan 21, 2026



Page 5 of 54



# TEST REPORT

Number : HKGH03322381

(2) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS ISO 12312-3:2022 – Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles

Number of samples tested: Six ( 6 ) 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 ISO 12312-3:2022. 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	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
4	4	Construction and materials	
	4.1	Construction	P
	4.2	Filter material and surface quality	P
	4.3	Physiological compatibility	Note (2)
	4.4	Headforms	#1



Page 6 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
5	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	Requirements for road use and driving	
	5.3.2.1	General	P
	5.3.2.1a	Spectral transmittance	P
	5.3.2.1b	Detection of signal lights	P
	5.3.2.2	Road use (including driving) in twilight or at night	P
	5.3.3	Wide angle scatter	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-tinted filters	NA
	5.3.4.4	Electro-optical sunglare filter; electro-optical sunglass filter	NA
	5.3.5	Claimed transmittance properties	NA (No claim)
Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
6	6	Refractive power	
	6.1	Spherical and astigmatic power	P
	6.2	Spatial deviation	NA
	6.3	Prism imbalance (relative prism error)	P
7	--	Robustness	
7.1	7.2	Frame deformation and retention of filters	P
7.2	7.4	Increased endurance of sunglasses	P
7.3	7.5	Resistance to perspiration	P
7.4	7.6	Increased robustness of the sunglass, strength level 2	P
7.5		Impact resistance of the filter, strength level 3 (optional requirement)	NA (No claim)
8	8	Resistance to solar radiation	P
9	9	Resistance to ignition	P
10	10	Resistance to abrasion (optional requirement)	NA (No claim)
11	ISO 18526-3:2020 / 6.11	Resistance of fogging (optional requirement)	NA (No claim)



Page 7 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
12	--	Protective requirements	
12.1	--	Field of view and coverage area	P
12.2	11.2	Temporal protective requirements	NA
13	--	Information and labelling	
13.1	--	Information to be supplied with each pair of sunglasses	P (Note 3)
13.2	--	Additional information	#2

Abbreviation: P = Pass;

NA = Not Applicable

Test data:

## 5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm ( $T_{v D65}$ )	13.49	13.22	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	≤ 0.5 $T_{v D65}$ (6.74)	≤ 0.5 $T_{v D65}$ (6.61)

Requirement:

Consumer label	Technical label	Requirements			
		Ultraviolet spectral range		Visible spectral range	
Descriptive label	Filter category	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 ( $T_{v D65}$ ) 380 nm to 780 nm	
		Very limited reduction of sunglare	0	0.05 $T_{v D65}$	$T_{v D65} > 80\%$
Limited protection from sunglare	1	0.05 $T_{v D65}$		$T_{v D65}$	$43\% < T_{v D65} \leq 80\%$
Good protection against sunglare	2	1.0% absolute or 0.05 $T_{v D65}$ , whichever is greater		0.5 $T_{v D65}$	$18\% < T_{v D65} \leq 43\%$
High	3	1.0% absolute		0.5 $T_{v D65}$	$8\% < T_{v D65} < 18\%$



Page 8 of 54



**TEST REPORT**

Number : HKGH03322381

protection against sunglare				
Very high protection against extreme sunglare, e.g. at sea, over snowfields, on high mountain, or in desert	4	1.0% absolute	1.0% absolute or 0.25 $T_{v\ D65}$ , whichever is greater	$3\% < T_{v\ D65} \leq 8\%$



Page 9 of 54



# TEST REPORT

Number : HKGH03322381

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	8.31	8.81	≤ 15
% difference between filters [relative to lighter filter]		1.98	≤ 15

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.81	11.54	≥ 0.2 $T_v$ D65 (2.70)	≥ 0.2 $T_v$ D65 (2.64)

## 5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.20	1.20	≥ 0.80
Yellow	1.04	1.04	≥ 0.60
Blue	1.01	1.02	≥ 0.60
Green	0.98	0.98	≥ 0.60

## 5.3.3 Wide angle scatter

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



Page 10 of 54



# TEST REPORT

Number : HKGH03322381

## 6.1 Spherical and astigmatic power

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	-0.06	-0.05	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.04	0.03	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0.01		$\leq 0.18$

## 6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.175	$\leq 1.00$
	Base in	--	$\leq 0.25$
Vertical		0.025	$\leq 0.25$

## 8 Resistance to solar radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+2.08	Requirement: + 3% for category 0 + 5% for category 1 + 8% for category 2 + 10% for categories 3 & 4
Right ocular (%)	+2.02	

### (b) Wide angle scatter after solar radiation

Left ocular (%)	Right ocular(%)	Requirement (%)
1.1	1.2	$\leq 3$

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



Page 11 of 54



# TEST REPORT

Number : HKGH03322381

## 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 document;
- c) The country of origin (e.g. "made in \_\_\_\_\_");
- d) The nominal value of luminous transmittance;
- e) Transmission requirements applicable to this product;
- f) Polarizing efficiency in cases of polarizing filters;
- g) 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 12 of 54



# TEST REPORT

Number : HKGH03322381

## (3) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS ISO 12312-3:2022 – Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles

Number of samples tested: Six ( 6 ) pairs (Black)

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 ISO 12312-3:2022. 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	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
4	4	Construction and materials	
	4.1	Construction	P
	4.2	Filter material and surface quality	P
	4.3	Physiological compatibility	Note (2)
	4.4	Headforms	#1



Page 13 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
5	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	Requirements for road use and driving	
	5.3.2.1	General	P
	5.3.2.1a	Spectral transmittance	P
	5.3.2.1b	Detection of signal lights	P
	5.3.2.2	Road use (including driving) in twilight or at night	P
	5.3.3	Wide angle scatter	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-tinted filters	NA
	5.3.4.4	Electro-optical sunglare filter; electro-optical sunglass filter	NA
	5.3.5	Claimed transmittance properties	NA (No claim)
Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
6	6	Refractive power	
	6.1	Spherical and astigmatic power	P
	6.2	Spatial deviation	NA
	6.3	Prism imbalance (relative prism error)	P
7	--	Robustness	
7.1	7.2	Frame deformation and retention of filters	P
7.2	7.4	Increased endurance of sunglasses	P
7.3	7.5	Resistance to perspiration	P
7.4	7.6	Increased robustness of the sunglass, strength level 2	P
7.5		Impact resistance of the filter, strength level 3 (optional requirement)	NA (No claim)
8	8	Resistance to solar radiation	P
9	9	Resistance to ignition	P
10	10	Resistance to abrasion (optional requirement)	NA (No claim)
11	ISO 18526-3:2020 / 6.11	Resistance of fogging (optional requirement)	NA (No claim)



Page 14 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
12	--	Protective requirements	
12.1	--	Field of view and coverage area	P
12.2	11.2	Temporal protective requirements	NA
13	--	Information and labelling	
13.1	--	Information to be supplied with each pair of sunglasses	P (Note 3)
13.2	--	Additional information	#2

Abbreviation: P = Pass;

NA = Not Applicable

Test data:

## 5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm ( $T_{v D65}$ )	17.84	17.24	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	≤ 0.5 $T_{v D65}$ (8.92)	≤ 0.5 $T_{v D65}$ (8.62)

Requirement:

Consumer label	Technical label	Requirements			
		Ultraviolet spectral range		Visible spectral range	
Descriptive label	Filter category	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 ( $T_{v D65}$ ) 380 nm to 780 nm	
		Very limited reduction of sunglare	0	0.05 $T_{v D65}$	$T_{v D65} > 80\%$
Limited protection from sunglare	1	0.05 $T_{v D65}$		$T_{v D65}$	$43\% < T_{v D65} \leq 80\%$
Good protection against sunglare	2	1.0% absolute or 0.05 $T_{v D65}$ , whichever is greater		0.5 $T_{v D65}$	$18\% < T_{v D65} \leq 43\%$
High	3	1.0% absolute		0.5 $T_{v D65}$	$8\% < T_{v D65} < 18\%$



Page 15 of 54



**TEST REPORT**

Number : HKGH03322381

protection against sunglare				
Very high protection against extreme sunglare, e.g. at sea, over snowfields, on high mountain, or in desert	4	1.0% absolute	1.0% absolute or 0.25 $T_{v D65}$ , whichever is greater	$3\% < T_{v D65} \leq 8\%$



Page 16 of 54



# TEST REPORT

Number : HKGH03322381

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	11.18	10.30	≤ 15
% difference between filters [relative to lighter filter]	3.37		≤ 15

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	14.40	13.57	≥ 0.2 $T_{V_{D65}}$ (3.57)	≥ 0.2 $T_{V_{D65}}$ (3.45)

## 5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.04	1.05	≥ 0.80
Yellow	0.97	0.97	≥ 0.60
Blue	1.11	1.11	≥ 0.60
Green	1.01	1.01	≥ 0.60

## 5.3.3 Wide angle scatter

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



Page 17 of 54



# TEST REPORT

Number : HKGH03322381

## 6.1 Spherical and astigmatic power

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	-0.06	-0.05	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.04	0.03	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0.01		$\leq 0.18$

## 6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.175	$\leq 1.00$
	Base in	--	$\leq 0.25$
Vertical		0.025	$\leq 0.25$

## 8 Resistance to solar radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+1.00	Requirement: + 3% for category 0 + 5% for category 1 + 8% for category 2 + 10% for categories 3 & 4
Right ocular (%)	+0.45	

### (b) Wide angle scatter after solar radiation

Left ocular (%)	Right ocular(%)	Requirement (%)
0.8	0.7	$\leq 3$

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



Page 18 of 54



# TEST REPORT

Number : HKGH03322381

## 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 document;
- c) The country of origin (e.g. "made in \_\_\_\_\_");
- d) The nominal value of luminous transmittance;
- e) Transmission requirements applicable to this product;
- f) Polarizing efficiency in cases of polarizing filters;
- g) 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 19 of 54



# TEST REPORT

Number : HKGH03322381

## (4) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS ISO 12312-3:2022 – Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles

Number of samples tested: Six ( 6 ) pairs (Orange)

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 ISO 12312-3:2022. 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	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
4	4	Construction and materials	
	4.1	Construction	P
	4.2	Filter material and surface quality	P
	4.3	Physiological compatibility	Note (2)
	4.4	Headforms	#1



Page 20 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
5	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	Requirements for road use and driving	
	5.3.2.1	General	P
	5.3.2.1a	Spectral transmittance	P
	5.3.2.1b	Detection of signal lights	P
	5.3.2.2	Road use (including driving) in twilight or at night	P
	5.3.3	Wide angle scatter	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-tinted filters	NA
	5.3.4.4	Electro-optical sunglare filter; electro-optical sunglass filter	NA
	5.3.5	Claimed transmittance properties	NA (No claim)
Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
6	6	Refractive power	
	6.1	Spherical and astigmatic power	P
	6.2	Spatial deviation	NA
	6.3	Prism imbalance (relative prism error)	P
7	--	Robustness	
7.1	7.2	Frame deformation and retention of filters	P
7.2	7.4	Increased endurance of sunglasses	P
7.3	7.5	Resistance to perspiration	P
7.4	7.6	Increased robustness of the sunglass, strength level 2	P
7.5		Impact resistance of the filter, strength level 3 (optional requirement)	NA (No claim)
8	8	Resistance to solar radiation	P
9	9	Resistance to ignition	P
10	10	Resistance to abrasion (optional requirement)	NA (No claim)
11	ISO 18526-3:2020 / 6.11	Resistance of fogging (optional requirement)	NA (No claim)



Page 21 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
12	--	Protective requirements	
12.1	--	Field of view and coverage area	P
12.2	11.2	Temporal protective requirements	NA
13	--	Information and labelling	
13.1	--	Information to be supplied with each pair of sunglasses	P (Note 3)
13.2	--	Additional information	#2

Abbreviation: P = Pass;

NA = Not Applicable

Test data:

## 5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm ( $T_{v D65}$ )	14.05	13.95	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 ( $T_{SUVB}$ )	< 0.10	< 0.10	≤ 0.5 $T_{v D65}$ (7.03)	≤ 0.5 $T_{v D65}$ (6.97)



Page 22 of 54



# TEST REPORT

Number : HKGH03322381

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 ( $T_{v D65}$ ) 380 nm to 780 nm
Very limited reduction of sunglare	0	0.05 $T_{v D65}$	$T_{v D65}$	$T_{v D65} > 80\%$
Limited protection from sunglare	1	0.05 $T_{v D65}$	$T_{v D65}$	$43\% < T_{v D65} \leq 80\%$
Good protection against sunglare	2	1.0% absolute or 0.05 $T_{v D65}$ , whichever is greater	0.5 $T_{v D65}$	$18\% < T_{v D65} \leq 43\%$
High protection against sunglare	3	1.0% absolute	0.5 $T_{v D65}$	$8\% < T_{v D65} \leq 18\%$
Very high protection against extreme sunglare, e.g. at sea, over snowfields, on high mountain, or in desert	4	1.0% absolute	1.0% absolute or 0.25 $T_{v D65}$ , whichever is greater	$3\% < T_{v D65} \leq 8\%$

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	6.91	7.87	$\leq 15$
% difference between filters [relative to lighter filter]	0.74		$\leq 15$

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.33	10.76	$\geq 0.2 T_{v D65}$ (2.81)	$\geq 0.2 T_{v D65}$ (2.79)



Page 23 of 54



# TEST REPORT

Number : HKGH03322381

## 5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	0.95	0.96	≥ 0.80
Yellow	0.94	0.95	≥ 0.60
Blue	1.12	1.09	≥ 0.60
Green	1.04	1.04	≥ 0.60

## 5.3.3 Wide angle scatter

Wide angle scatter (%)	Left ocular	Right ocular	Requirement
	0.7	1.0	≤ 3



Page 24 of 54



# TEST REPORT

Number : HKGH03322381

## 6.1 Spherical and astigmatic power

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	-0.06	-0.05	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.03	0.02	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0.01		$\leq 0.18$

## 6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.175	$\leq 1.00$
	Base in	--	$\leq 0.25$
Vertical		0.025	$\leq 0.25$

## 8 Resistance to solar radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+2.34	Requirement: + 3% for category 0 + 5% for category 1 + 8% for category 2 + 10% for categories 3 & 4
Right ocular (%)	+1.81	

### (b) Wide angle scatter after solar radiation

Left ocular (%)	Right ocular(%)	Requirement (%)
0.8	1.0	$\leq 3$

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



Page 25 of 54



# TEST REPORT

Number : HKGH03322381

## 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 document;
- c) The country of origin (e.g. "made in \_\_\_\_\_");
- d) The nominal value of luminous transmittance;
- e) Transmission requirements applicable to this product;
- f) Polarizing efficiency in cases of polarizing filters;
- g) 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 26 of 54



# TEST REPORT

Number : HKGH03322381

## (5) Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: BS ISO 12312-3:2022 – Eye and face protection – Sunglasses and related eyewear – Part 3: Sunglasses for running, cycling and similar active lifestyles

Number of samples tested: Six ( 6 ) pairs (Purple)

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 ISO 12312-3:2022. 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	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
4	4	Construction and materials	
	4.1	Construction	P
	4.2	Filter material and surface quality	P
	4.3	Physiological compatibility	Note (2)
	4.4	Headforms	#1



Page 27 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
5	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	Requirements for road use and driving	
	5.3.2.1	General	P
	5.3.2.1a	Spectral transmittance	P
	5.3.2.1b	Detection of signal lights	P
	5.3.2.2	Road use (including driving) in twilight or at night	P
	5.3.3	Wide angle scatter	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-tinted filters	NA
	5.3.4.4	Electro-optical sunglare filter; electro-optical sunglass filter	NA
	5.3.5	Claimed transmittance properties	NA (No claim)
Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
6	6	Refractive power	
	6.1	Spherical and astigmatic power	P
	6.2	Spatial deviation	NA
	6.3	Prism imbalance (relative prism error)	P
7	--	Robustness	
7.1	7.2	Frame deformation and retention of filters	P
7.2	7.4	Increased endurance of sunglasses	P
7.3	7.5	Resistance to perspiration	P
7.4	7.6	Increased robustness of the sunglass, strength level 2	P
7.5		Impact resistance of the filter, strength level 3 (optional requirement)	NA (No claim)
8	8	Resistance to solar radiation	P
9	9	Resistance to ignition	P
10	10	Resistance to abrasion (optional requirement)	NA (No claim)
11	ISO 18526-3:2020 / 6.11	Resistance of fogging (optional requirement)	NA (No claim)



Page 28 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Corresponding clause in ISO 12312-1:2022 (unless otherwise specified)	Requirement	Result
12	--	Protective requirements	
12.1	--	Field of view and coverage area	P
12.2	11.2	Temporal protective requirements	
13	--	Information and labelling	
13.1	--	Information to be supplied with each pair of sunglasses	P (Note 3)
13.2	--	Additional information	

Abbreviation: P = Pass;

NA = Not Applicable

Test data:

## 5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm ( $T_{v D65}$ )	14.29	14.09	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	≤ 0.5 $T_{v D65}$ (7.15)	≤ 0.5 $T_{v D65}$ (7.05)

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 ( $T_{v D65}$ ) 380 nm to 780 nm
Very limited reduction of sunglare	0	0.05 $T_{v D65}$	$T_{v D65}$	$T_{v D65} > 80\%$
Limited protection from sunglare	1	0.05 $T_{v D65}$	$T_{v D65}$	43% < $T_{v D65} \leq 80\%$
Good protection against sunglare	2	1.0% absolute or 0.05 $T_{v D65}$ , whichever is greater	0.5 $T_{v D65}$	18% < $T_{v D65} \leq 43\%$
High protection	3	1.0% absolute	0.5 $T_{v D65}$	8% < $T_{v D65} \leq 18\%$



Page 29 of 54



**TEST REPORT**

Number : HKGH03322381

against sunglare				
Very high protection against extreme sunglare, e.g. at sea, over snowfields, on high mountain, or in desert	4	1.0% absolute	1.0% absolute or 0.25 $T_{v D65}$ , whichever is greater	$3\% < T_{v D65} \leq 8\%$



Page 30 of 54



# TEST REPORT

Number : HKGH03322381

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	8.66	8.66	$\leq 15$
% difference between filters [relative to lighter filter]	1.38		$\leq 15$

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.42	11.67	$\geq 0.2 \text{ Tv}_{\text{D}65}$ (2.86)	$\geq 0.2 \text{ Tv}_{\text{D}65}$ (2.82)

## 5.3.2.1b Detection of signal lights

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

## 5.3.3 Wide angle scatter

Wide angle scatter (%)	Left ocular	Right ocular	Requirement
	0.7	0.8	$\leq 3$



Page 31 of 54



# TEST REPORT

Number : HKGH03322381

## 6.1 Spherical and astigmatic power

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	-0.06	-0.05	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.04	0	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0.01		$\leq 0.18$

## 6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.175	$\leq 1.00$
	Base in	--	$\leq 0.25$
Vertical		0.025	$\leq 0.25$

## 8 Resistance to solar radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+2.03	Requirement: + 3% for category 0 + 5% for category 1 + 8% for category 2 + 10% for categories 3 & 4
Right ocular (%)	+1.48	

### (b) Wide angle scatter after solar radiation

Left ocular (%)	Right ocular(%)	Requirement (%)
0.7	0.7	$\leq 3$

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



Page 32 of 54



# TEST REPORT

Number : HKGH03322381

## 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 document;
- c) The country of origin (e.g. "made in \_\_\_\_\_");
- d) The nominal value of luminous transmittance;
- e) Transmission requirements applicable to this product;
- f) Polarizing efficiency in cases of polarizing filters;
- g) 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 33 of 54



## TEST REPORT

Number : HKGH03322381

(6) 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 (Style 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)
6	Refractive power	



Page 34 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Requirement	Result
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)	13.64	13.76	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T <sub>SUVB</sub> )	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T <sub>SUVA</sub> )	< 0.10	< 0.10	≤ 0.5Tv (6.82)	≤ 0.5Tv (6.88)



Page 35 of 54



# TEST REPORT

Number : HKGH03322381

## 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	$43\% < Tv \leq 80\%$
General purpose sunglasses	2	1.0% absolute or 0.05 Tv, whichever is greater	0.5 Tv	$18\% < Tv \leq 43\%$
	3	1.0% absolute	0.5 Tv	$8\% < Tv \leq 18\%$
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or 0.25 Tv, whichever is greater	$3\% < Tv \leq 8\%$

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter - after correction [relative to higher value]	8.04	3.17	$\leq 10$
% difference between filters [relative to lighter filter]	0.86		$\leq 15$

Note: The above correction was based on Annex L of ISO 12311 - method to correct transmittance for variations in thickness of the filter, with the input of refractive index provided by supplier/ manufacturer.

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.92	11.97	$\geq 0.2$ Tv (2.73)	$\geq 0.2$ Tv (2.75)

## 5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.19	1.19	$\geq 0.80$
Yellow	1.04	1.04	$\geq 0.60$
Blue	1.01	1.01	$\geq 0.60$
Green	0.98	0.98	$\geq 0.60$

## 5.3.3 Wide angle scattering

Wide angle scattering (%)	Left ocular	Right ocular	Requirement
	0.10	1.1	$\leq 3$



Page 36 of 54



# TEST REPORT

Number : HKGH03322381

## 6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	-0.06	-0.06	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.04	0.01	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0		$\leq 0.18$

## 6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)			Limit (cm/m)
Horizontal	Base out	0.175	$\leq 1.00$
	Base in	--	$\leq 0.25$
Vertical		0.025	$\leq 0.25$



Page 37 of 54



# TEST REPORT

Number : HKGH03322381

## 8 Resistance to radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+1.12	Requirement ± 3% for category 0 ± 5% for category 1 ± 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	+1.48	

### (b) Wide angle scattering after solar radiation

Left ocular (%)	Right ocular (%)	Requirement (%)
1.3	1.2	≤ 3

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

Remark:

#1 - 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.

∞ - 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 38 of 54



# TEST REPORT

Number : HKGH03322381

## (7) 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 (Style Black)

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)
6	Refractive power	



Page 39 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Requirement	Result
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)	18.20	17.17	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T <sub>SUVB</sub> )	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T <sub>SUVA</sub> )	< 0.10	< 0.10	≤ 0.5Tv (9.10)	≤ 0.5Tv (8.58)



Page 40 of 54



# TEST REPORT

Number : HKGH03322381

## 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	$43\% < Tv \leq 80\%$
General purpose sunglasses	2	1.0% absolute or 0.05 Tv, whichever is greater	0.5 Tv	$18\% < Tv \leq 43\%$
	3	1.0% absolute	0.5 Tv	$8\% < Tv \leq 18\%$
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or 0.25 Tv, whichever is greater	$3\% < Tv \leq 8\%$

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter - after correction [relative to higher value]	4.88	5.97	$\leq 10$
% difference between filters [relative to lighter filter]	5.67		$\leq 15$

Note: The above correction was based on Annex L of ISO 12311 - method to correct transmittance for variations in thickness of the filter, with the input of refractive index provided by supplier/ manufacturer.

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	14.34	13.66	$\geq 0.2$ Tv (3.64)	$\geq 0.2$ Tv (3.43)

## 5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.04	1.04	$\geq 0.80$
Yellow	0.97	0.97	$\geq 0.60$
Blue	1.11	1.12	$\geq 0.60$
Green	1.01	1.01	$\geq 0.60$

## 5.3.3 Wide angle scattering

Wide angle scattering (%)	Left ocular	Right ocular	Requirement
	0.6	0.7	$\leq 3$



# TEST REPORT

Number : HKGH03322381

## 6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	-0.07	-0.05	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.03	0.03	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0.02		$\leq 0.18$

## 6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)		Limit (cm/m)
Horizontal	Base out	0.15
	Base in	--
Vertical	0.025	$\leq 0.25$

## 8 Resistance to radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+0.36	Requirement ± 3% for category 0 ± 5% for category 1 ± 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	+0.23	

### (b) Wide angle scattering after solar radiation

Left ocular (%)	Right ocular (%)	Requirement (%)
0.7	0.7	$\leq 3$

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



Page 42 of 54



# TEST REPORT

Number : HKGH03322381

## Remark:

#1 - 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.

∞ - 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 43 of 54



# TEST REPORT

Number : HKGH03322381

(8) 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 (Style Orange)

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)
6	Refractive power	



Page 44 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Requirement	Result
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)	13.84	13.82	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T <sub>SUVB</sub> )	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T <sub>SUVA</sub> )	< 0.10	< 0.10	≤ 0.5Tv (6.92)	≤ 0.5Tv (6.91)



Page 45 of 54



# TEST REPORT

Number : HKGH03322381

## 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	$43\% < Tv \leq 80\%$
General purpose sunglasses	2	1.0% absolute or 0.05 Tv, whichever is greater	0.5 Tv	$18\% < Tv \leq 43\%$
	3	1.0% absolute	0.5 Tv	$8\% < Tv \leq 18\%$
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or 0.25 Tv, whichever is greater	$3\% < Tv \leq 8\%$

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter - after correction [relative to higher value]	3.12	2.21	$\leq 10$
% difference between filters [relative to lighter filter]	0.10		$\leq 15$

Note: The above correction was based on Annex L of ISO 12311 - method to correct transmittance for variations in thickness of the filter, with the input of refractive index provided by supplier/ manufacturer.

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.02	11.19	$\geq 0.2$ Tv (2.77)	$\geq 0.2$ Tv (2.76)

## 5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	0.95	0.95	$\geq 0.80$
Yellow	0.94	0.94	$\geq 0.60$
Blue	1.11	1.10	$\geq 0.60$
Green	1.04	1.05	$\geq 0.60$

## 5.3.3 Wide angle scattering

Wide angle scattering (%)	Left ocular	Right ocular	Requirement
	0.9	0.9	$\leq 3$



Page 46 of 54



# TEST REPORT

Number : HKGH03322381

## 6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	-0.06	-0.05	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.05	0.02	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0.01		$\leq 0.18$

## 6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)		Limit (cm/m)
Horizontal	Base out	0.175
	Base in	--
Vertical	0.025	$\leq 0.25$

## 8 Resistance to radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+2.09	Requirement + 3% for category 0 + 5% for category 1 + 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	+1.27	

### (b) Wide angle scattering after solar radiation

Left ocular (%)	Right ocular (%)	Requirement (%)
0.8	0.9	$\leq 3$

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



Page 47 of 54



# TEST REPORT

Number : HKGH03322381

## Remark:

#1 - 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.

∞ - 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 48 of 54



# TEST REPORT

Number : HKGH03322381

## (9) 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 (Style Purple)

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)
6	Refractive power	



Page 49 of 54



# TEST REPORT

Number : HKGH03322381

Clause	Requirement	Result
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)	14.21	14.15	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (T <sub>SUVB</sub> )	< 0.10	< 0.10	≤ 1.0	≤ 1.0
315 - 380nm (T <sub>SUVA</sub> )	< 0.10	< 0.10	≤ 0.5Tv (7.10)	≤ 0.5Tv (7.07)



Page 50 of 54



# TEST REPORT

Number : HKGH03322381

## 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	$43\% < Tv \leq 80\%$
General purpose sunglasses	2	1.0% absolute or 0.05 Tv, whichever is greater	0.5 Tv	$18\% < Tv \leq 43\%$
	3	1.0% absolute	0.5 Tv	$8\% < Tv \leq 18\%$
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or 0.25 Tv, whichever is greater	$3\% < Tv \leq 8\%$

## 5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter - after correction [relative to higher value]	1.52	2.42	$\leq 10$
% difference between filters [relative to lighter filter]	0.43		$\leq 15$

Note: The above correction was based on Annex L of ISO 12311 - method to correct transmittance for variations in thickness of the filter, with the input of refractive index provided by supplier/ manufacturer.

## 5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	11.98	11.77	$\geq 0.2$ Tv (2.84)	$\geq 0.2$ Tv (2.83)

## 5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	0.99	1.00	$\geq 0.80$
Yellow	0.99	0.99	$\geq 0.60$
Blue	1.02	1.01	$\geq 0.60$
Green	1.02	1.02	$\geq 0.60$

## 5.3.3 Wide angle scattering

Wide angle scattering	Left ocular	Right ocular	Requirement



# TEST REPORT

Number : HKGH03322381

(%)	0.8	0.8	≤ 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	-0.04	±0.12
Astigmatic power ( $m^{-1}$ )	0.02	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	0.175	≤ 1.00
	Base in	--	≤ 0.25
Vertical		0.025	≤ 0.25

## 8 Resistance to radiation

### (a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+2.08	Requirement ± 3% for category 0 ± 5% for category 1 ± 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	+1.69	

### (b) Wide angle scattering after solar radiation

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

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



Page 52 of 54



# TEST REPORT

Number : HKGH03322381

## Remark:

#1 - 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.

∞ - 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 : Jan 13, 2026, Jan 16, 2026

Testing period : Jan 13, 2026 to Jan 27, 2026



Page 53 of 54



**TEST REPORT**

Number : HKGH03322381

**HKGH03322381-003****HKGH03322381-004****HKGH03322381-005****HKGH03322381-006****End of report**

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Page 54 of 54

