No. YW20250934

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检测
TESTING
CNAS L1071

TEST REPORT

Product: Solar Eclipse Glasses

Model: EG50

Applicant: Shenzhen Octopus Glasses Co., Ltd.

Date of issue: 2025-10-11

GIMT

GUANGZHOU INSTITUTE OF MEASUREMENT AND TESTING TECHNOLOGY

广州计量检测技术研究院 检验检测专用章 (1)

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* *

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TEST REPORTS

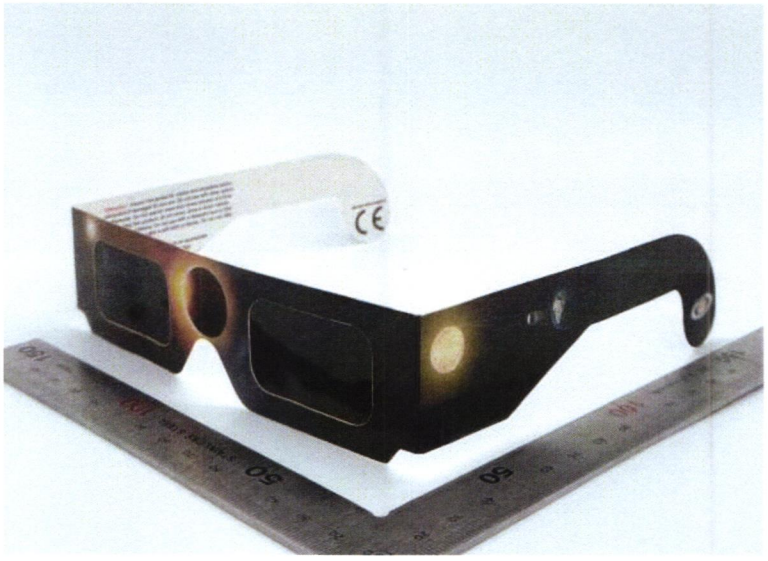
Information

Report No.	YW20250934
Commission No.	4006206
Testing Laboratory	Guangzhou Institute of Measurement and Testing Technology
Address	No.19, Jiantashan Road, Kexuecheng, Guangzhou, Guangdong, China
Applicant	Shenzhen Octopus Glasses Co., Ltd.
Address	703, Building 5, Wanyue Mansion, No.4131 BYD Road, Pinghuan Community, Maluan Street, Pingshan, Shenzhen, Guangdong, China
Information of samples	
Product	Solar Eclipse Glasses
Brand name	——
Model No.	EG50
Colour	——
Manufacturer / Vendor	Shenzhen Octopus Glasses Co., Ltd.
Quantity submitted	3 pcs.
Date	
Date of receipt	2025-09-08
Period of testing	2025-09-08 to 2025-09-18
Date of issue	2025-10-11
Environmental condition	
Temperature	（23.0～24.1） ℃
Relative humidity	（52.7～54.0） %
Test requested	EN ISO 12312-2:2015
Test method	EN ISO 12312-2:2015
Results	Please refer to the following pages.
Conclusion	Please refer to the following pages.

——See next page——

主管：张洁 审核：曹文才 主检：王水玲

广州计量检测技术研究院 检验检测专用章 (1)

Description of samples	Photo of samples
Quantity submitted: 3 pcs.	

Comment:

EN ISO 12312-2:2015
Eye and face protection — Sunglasses and related eyewear — Part 2: Filters for direct observation of the sun

Clause	Requirement	Result
4.1	Transmittance	
4.1.1	General (luminous transmittance and solar infrared transmittance)	Pass
4.1.2	Uniformity of luminous transmittance	Pass
4.2	Material and surface quality	Pass
4.3	Mountiong	
4.3.1	General	Pass
4.3.2	Dimensions	Pass
4.3.3	Material quality	Pass

——See next page——

主管：张洁 审核：曹文才 主检：王水玲

TEST RESULTS

EN ISO 12312-2:2015
Eye and face protection — Sunglasses and related eyewear
—Part 2: Filters for direct observation of the sun

4.1 Transmittance

4.1.1 Genaral

Test results of the submitted samples are showed as Table 1.

The transmittance requirements of filters are given in Table 2.

Table 1. Test results of the transmittance

Performance parameter	Sample	Measurement		Result (Pass/Fail)
		R	L	
Luminous transmittance (τ_V)	1	0.00014%	0.00013%	Pass
Solar UVA transmittance (τ_{SUVA})	1	0.00000%	0.00000%	Pass
Solar UVB transmittance (τ_{SUVB})	1	0.00000%	0.00000%	Pass
Solar infrared transmittance (τ_{SIR})	1	0.076%	0.071%	Pass

Note：#2 "R" means the right lens of the glasses and "L" means the left lens of the glasses.

Table 2. Transmittance requirements for filters for the direct observation of the sun

Maximum luminous transmittance (τ_V)	0.0032%
Minimum luminous transmittance (τ_V)	0.000061%
Maximum solar UVA transmittance (τ_{SUVA})	τ_V
Maximum solar UVB transmittance (τ_{SUVB})	τ_V
Maximum solar infrared transmittance (τ_{SIR})	3%

Result：Pass.

——See next page——

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4.1.2 Uniformity of luminous transmittance

Test results of the submitted samples are showed as Table 3.

The relative difference in the luminous transmittance value between any two points of the filter shall not be greater than 10 % (relative to the higher value).

Table 3. Test results of the uniformity of luminous transmittance

Sample		Uniformity of luminous transmittance	Result (Pass/Fail)
Sample 1	R	6.67%	Pass
	L	7.14%	Pass

Result: Pass.

4.2 Material and surface quality

Except in a marginal area 5 mm wide, filters shall be free from defects likely to impair vision in use, such as bubbles, scratches, inclusions, dull spots, pitting, scouring, pocking, scaling, and undulations. Metal coated filter materials shall not exhibit more than one pinhole defect not greater than 200 μm in average diameter within any 5 mm diameter circular zone.

Result: Pass.

4.3 Mounting

4.3.1 General

Filters are held securely so that it cannot be dislodged by normal handling or by gusts of wind.

Result: Pass.

4.3.2 Dimensions

Table 4. Test results of the dimensions

Sample	Overall dimensions		Triangular cut-away area		Result (Pass/Fail)
	Width	Depth	Apical height	Width	
Sample 1	145.05 mm	37.12 mm	14.92 mm	34.93 mm	Pass

Result: Pass.

——See next page——

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Table 5. Requiremernts of the dimensions

Overall dimensions		Triangular cut-away area	
Width	Depth	Apical height	Width
≥115 mm	≥35 mm	≤15 mm	≤35 mm

4.3.3 Material quality

The filter and mounting are free from roughness, sharp edges, projections, or other defects which could cause discomfort or injury during use. No part of the filter or mounting which is in contact with the wearer is made of materials which are known to cause any skin irritation.

Result: Pass.

——End of the report——

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