

Test report

24W-001536(R1)



Verify Report

Overall result

PASS

Please refer to the following pages for test result summary and notes.

Client information

Client: Rezos LLC
Address: 3500 DuPont Hwy
STE 300
Dover
United States



Sample information

Description: Solar Eclipse Glasses
Country of origin: China
Country of distribution: Argentina; Canada; Chile; Mexico;
Spain; United States
Supplier: Jaxy Optical Instrument Co., Ltd.
Materials: Paper + coated lens
Quantity submitted: 5 styles + 3 pcs per style

Purchase order #: 187287434501029489
Labeled age grade: -
Requested age grade: All ages
Tested age grade: -

General information

Sample receipt date: 26-Jan-2024
^STesting period: 26-Jan-2024 to 21-Feb-2024

Report date: 29-Mar-2024

QIMA (Hangzhou) Testing Co., Ltd.

Larkin Liu

Larkin Liu

Eyewear Laboratory Supervisor



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401, 4-5/F, Building 1, No.1213 Huojia South Road,
Puyuan Subdistrict, Binjiang District, Hangzhou, China

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Sample technical information

Frame size: -
Lens color description: -
Category number: -
Lens optical power: -

Blue-light transmittance: -
UV protection: -
Anti-abrasion: -
Anti-reflection treated: -





Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
ISO 12312-2:2015 Eye and face protection - Sunglasses and related eyewear - Part 2: Filters for direct observation of the sun ^ϕ	PASS

Note:

NA = Not Applicable; NR = Not Required; NT = Not Tested; L = Left lens, R = Right lens; - = no information given.

Test(s) marked with 'ϕ' indicate tests performed in external laboratories.

Appendix I attached.

Note:

[§]Revised information and supersedes the previous report 24W-001536.

End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.



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§Appendix I

Appendix I

The test was performed by GUANGZHOU INSTITUTE OF MEASUREMENT AND TESTING TECHNOLOGY.
Test Report No. YW20240178.



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No. YW20240178



3 5 3 2



中国认可
国际互认
检测
TESTING
CNAS L1071

TEST REPORT

Product: Solar Eclipse Glasses

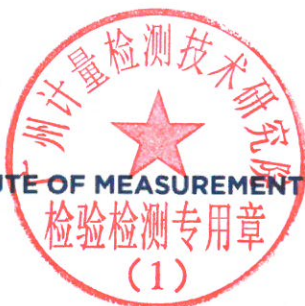
Model: PO:187287434501029489

Applicant: QIMA (Hangzhou) Testing Co.,Ltd

Date of issue: 2024-03-12

GIMT

GUANGZHOU INSTITUTE OF MEASUREMENT AND TESTING TECHNOLOGY



TEST REPORTS

Information

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Report No.	YW20240178
Commission No.	4016809
Testing Laboratory	Guangzhou Institute of Measurement and Testing Technology
Address	No.19, Jiantashan Road, Kexuecheng, Guangzhou, Guangdong, China
Applicant	QIMA (Hangzhou) Testing Co.,Ltd
Address	4th Floor, A2 Building, No.1213, HuoJu South Road, Binjiang District, Hangzhou, China
Information of samples	
Product	Solar Eclipse Glasses
Brand name	----
Model No.	PO:187287434501029489
Colour	----
Manufacturer / Vendor	----
Quantity submitted	1
Date	
Date of receipt	2024-01-26
Period of testing	2024-01-26 to 2024-02-21
Date of issue	2024-03-12
Environmental condition	
Temperature	(22.0~23.1) °C
Relative humidity	(51.2~52.4) %
Test requested	ISO 12312-2:2015
Test method	ISO 12312-2:2015
Results	Please refer to the following pages.
Conclusion	Please refer to the following pages.

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主管: 张洁

审核: 吴淑巧

主检:



TEST REPORTS

Information

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Description of samples	Photo of samples
Solar Eclipse Glasses	

Comment:

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
5	Labelling	Pass

——See next page——

主管: 张洁

审核: 吴淑巧

主检: 曹文才

TEST RESULTS

ISO 12312-2:2015

Eye and face protection — Sunglasses and related eyewear — Part 2: Filters for direct observation of the sun

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4.1 Transmittance

4.1.1 General

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

Sample		Luminous transmittance (τ_V)	Solar UVA transmittance (τ_{SUA})	Solar UVB transmittance (τ_{SUVB})	Solar infrared transmittance (τ_{SIR})	Result (Pass/Fail)
Sample 1	R	0.00040%	0.00000%	0.00000%	0.14%	Pass
	L	0.00025%	0.00000%	0.00000%	0.10%	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)	0.003 2%
Minimum luminous transmittance (τ_V)	0.000 061%
Maximum solar UVA transmittance (τ_{SUA})	τ_V
Maximum solar UVB transmittance (τ_{SUVB})	τ_V
Maximum solar infrared transmittance (τ_{SIR})	3%

Result: Pass.

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	5.00%	Pass
	L	8.00%	Pass

Result: Pass.

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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. Requirements of the dimensions

Overall dimensions		Triangular cut-away area	
Width	Depth	Apical height	Width
$\geq 115 \text{ mm}$	$\geq 35 \text{ mm}$	$\leq 15 \text{ mm}$	$\leq 35 \text{ mm}$

Table 5. Test results of the dimensions

Sample	Overall dimensions		Triangular cut-away area		Result (Pass/Fail)
	Width	Depth	Apical height	Width	
Sample 1	144.5 mm	36.9 mm	13.4 mm	31.5 mm	Pass

Result: Pass.

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.

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TEST RESULTS

ISO 12312-2:2015

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5 Labelling

The filter and its packaging show the following informations:

- a) name and address of manufacturer of the product;
- b) instructions for use in looking at the sun or a solar eclipse;
- c) warnings that viewing the sun without an appropriate filter can result in permanent eye injury;
- d) warnings that filters that are damaged or separated from their mountings should be discarded;
- e) advice on storage, cleaning, and maintenance;
- f) obsolescence deadline or period of obsolescence.

Result: Pass.

——End of the report——

2024.01.18

主管:  张洁

审核:  吴淑巧

主检:  曹文才