



Test Report

No.: NBHL241202781801SG

Date: DEC. 27, 2024

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PAUL STRICKER SA | PAUL STRICKER CZ S.R.O | REDA A.S.
NÚCLEO IND. MURTEDE, LT 5, 3060-372 MURTEDE, PORTUGAL | HVIEZDOSLAVOVA 55D, 627
00 BRNO | CZECH REPUBLIC

The following sample(s) was/were submitted and identified by the client as:

Sample Description : SUNGLASSES

Sample Quantity : 3 PCS

Item No. : REF. 98319-104

Manufacturer : 0031812

Supplier : 0031812

Buyer : PAUL STRICKER SA

Country of Origin : CHINA

Country of Destination : EUROPE

Sample Receiving Date : DEC. 17, 2024

Testing Period : DEC. 17, 2024 TO DEC. 27, 2024

Test Requested	Result
1. EN ISO 12312-1:2022 Eye and face protection – Sunglasses and related eyewear part 1 : Sunglasses for general use (excluding clause 4.3 Physiological compatibility, Clause 7.3 Impact resistance of the filter, strength level 1 (optional specification), Clause 7.4 Increased endurance of sunglasses (optional specification), Clause 7.5 Resistance to perspiration (optional specification), Clause 7.6 Impact resistance of the filter, strength level 2 or 3 (optional specification) and Clause 10 Resistance to abrasion (optional specification))	Pass
2. Entry 23 of Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium and its compounds	Pass
3. Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead (Non-metal)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Ruby Gu

Ruby Gu
Authorized Signatory



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Test Conducted:

1. EN ISO 12312-1:2022 Eye and face protection — Sunglasses and related eyewear.

Scope	: This part of EN ISO 12312 is applicable to all afocal (plano power) sunglasses and clip-ons for general use, including road use and driving, intended for protection against solar radiation. This part of EN ISO 12312 is not applicable to related eyewear, such as: a) eyewear for protection against radiation from artificial light sources, such as those used in solarium; b) eye protectors intended for specific sports (e.g. ski goggles or other types); c) sunglasses that have been medically prescribed for attenuating solar radiation; d) products intended for direct observation of the sun, such as for viewing a partial or annular solar eclipse. e) products intended for occupational eye protection.
Filter Type	: Uniform Glasses
Conditioning before tests	: 23 ± 5°C, 4 hours
Test Condition	: 16 °C - 32 °C , 50 ± 20% RH
Test Result	: Details shown as following table:-
Remark	: Transmittance and Optical Properties are measured at reference point (visual centre)

Test Item	Result	Note
Clause 4 Construction and materials:		
Clause 4.1 Construction	PASS	--
Clause 4.2 Filter material and surface quality	PASS	--
Clause 4.3 Physiological compatibility	N/C	See Note 4,5
Clause 5 Transmittance		See Note 8
Clause 5.2 Transmittance and filter categories	PASS	See Note 1 & Table I
Clause 5.3 General transmittance requirements	--	--
Clause 5.3.1 Uniformity of luminous transmittance	PASS	--
Clause 5.3.2 Requirements for road use and driving	--	--
Clause 5.3.2.1 General	PASS	--
Clause 5.3.2.2 Driving in twilight or at night	--	See Note 2
Clause 5.3.3 Wide angle scattering	PASS	--
Clause 5.3.4 Additional transmittance requirements for specific filter types	--	--
Clause 5.3.4.1 Photochromic filters	N/A	See Note 3
Clause 5.3.4.2 Polarizing filters	N/A	See Note 3
Clause 5.3.4.3 Gradient filters	N/A	See Note 3
Clause 5.3.5 Claimed transmittance properties	--	--
Clause 5.3.5.1 Blue-light absorption/transmittance	N/A	No claims, See Note 3
Clause 5.3.5.1.1 Blue-light absorption	N/A	No claims, See Note 3



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Clause 5.3.5.1.2 Blue-light transmittance	N/A	No claims, See Note 3
Clause 5.3.5.2 UV absorption/transmittance	---	---
Clause 5.3.5.2.1 General	Pass	---
Clause 5.3.5.2.2 Solar UV absorption	Pass	See Table II
Clause 5.3.5.2.3 Solar UV transmittance	N/A	No claims, See Note 3
Clause 5.3.5.2.4 Solar UV-A absorption	Pass	See Table II
Clause 5.3.5.2.5 Solar UV-A transmittance	N/A	No claims, See Note 3
Clause 5.3.5.2.6 Solar UV-B absorption	Pass	See Table II
Clause 5.3.5.2.7 Solar UV-B transmittance	N/A	No claims, See Note 3
Clause 5.3.5.3 Antireflective coated sunglasses	N/A	No claims, See Note 3
Clause 5.3.5.4 Enhanced infrared absorption	N/A	No claims, See Note 3
Clause 6 Refractive power		
Clause 6.1 Spherical and astigmatic power	PASS	--
Clause 6.2 Local variations in refractive power	N/A	See Note 3
Clause 6.3 Prism imbalance (relative prism error)	PASS	--
Clause 7 Robustness		
Clause 7.1 Minimum robustness of filters	PASS	--
Clause 7.2 Frame deformation and retention of filters	PASS	See Note 6
Clause 7.3 Impact resistance of the filter, strength level 1 (optional specification)	N/C	Optional Specification, See Note 4
Clause 7.4 Increased endurance of sunglasses (optional specification)	N/C	Optional Specification, See Note 4
Clause 7.5 Resistance to perspiration (optional specification)	N/C	Optional Specification, See Note 4
Clause 7.6 Impact resistance of the filter, strength level 2 or 3 (optional specification)	N/C	Optional Specification, See Note 4
Clause 8 Resistance to solar radiation	PASS	See Table III and Note 8
Clause 9 Resistance to ignition	PASS	--
Clause 10 Resistance to abrasion (optional specification)	N/C	Optional Specification, See Note 4
Clause 11 Protective requirements		
Clause 11.1 Coverage area	PASS	--
Clause 11.2 Temporal protective requirements	N/A	See Note 3
Clause 12 Information and labelling		
Clause 12.1 Information to be supplied with each pair of sunglasses	Pass	--
Clause 12.2 Additional information	--	See Note 7

Note(s) : # 1 Claim: Category: 3
Actual: Category: 3
Luminous transmittance, τ_v (%)
Left Filter 16.31%
Right Filter 15.75%



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- # 2 The filter has a luminous transmittance of less than 75 % and higher than 8 %, the following warning: "Not suitable for driving in twilight or at night" or "Not suitable for driving at night or under condition of dull light" should be provided.
- # 3 "N/A" means not applicable for the submitted sample.
- # 4 "N/C" means not conducted on this report as client requested.
- # 5 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.
- # 6 No fracture at any point observed, the deformation is below 2%.
- # 7 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.
- # 8 The Clause 5 Transmittance and Clause 8 Resistance to solar radiation were subcontracted to SGS Guangzhou lab.

Table I. Category requirements for sunglare filters for general use

Filter category	Requirements			
	Ultraviolet spectral range		Visible spectral range	
	Maximum value of solar UV-B transmittance, τ_{SUVB}	Maximum value of solar UV-A transmittance, τ_{SUVA}	Range of luminous transmittance, τ_V	
	280-315 nm	315-380 nm	From over %	To and include%
0	0.05 x τ_V	τ_V	80.0	100
1			43.0	80.0
2	1.0% or 0.05x τ_V (whichever is greater)	0.5 x τ_V	18.0	43.0
3			8.00	18.0
4	1.0%	1.0% or 0.25x τ_V (whichever is greater)	3.00	8.00



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Table II.UV 400

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements	Result
Solar UV Transmittance, τ_{SUV} (280nm – 400nm)	0.15	0.10	$\leq 0.5\%$	PASS
Solar UVA Transmittance, τ_{SUVA} (315nm – 400nm)	0.10	0.15	$\leq 0.5\%$	PASS
Solar UVB Transmittance, τ_{SUVB} (280nm – 315nm)	0.06	0.03	$\leq 0.5\%$	PASS

Table III

Clause 8

Relative change in Luminous transmittance after irradiation (%)	-1.10	5.29	$\leq \pm 3\%$ (Cat. 0) $\leq \pm 5\%$ (Cat. 1) $\leq \pm 8\%$ (Cat. 2) $\leq \pm 10\%$ (Cat. 3, 4)
Wide Angle Scattering after irradiation (%)	0.22	0.17	$\leq 3\%$
After the solar radiation , the test sample also meet the UV requirements for the initial τ_v as given by table 1			

Sample photo:



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Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB24-0074727-0001.C001	Translucent plastic frame

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated



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2. Entry 23 of Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium and its compounds

Test Method: With reference to EN 1122:2001 Method B, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	0.01	%	0.0005	ND
Conclusion				Pass

3. Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead (Non-metal)

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1
Total Lead (Pb)	500	mg/kg	20	ND
Conclusion				Pass

Notes:

When the result is equal to or greater than 500 mg/kg, the limit shall not apply where it can be demonstrated that the rate of Lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm²/h (equivalent to 0.05 µg/g/h), further migration test is requested per EN 16711-3: 2019 for compliance.

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.

Remark:

- Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
- The declaration of conformity is based on acceptance limits chosen based on simple acceptance ($w = 0, AL = TL$).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.



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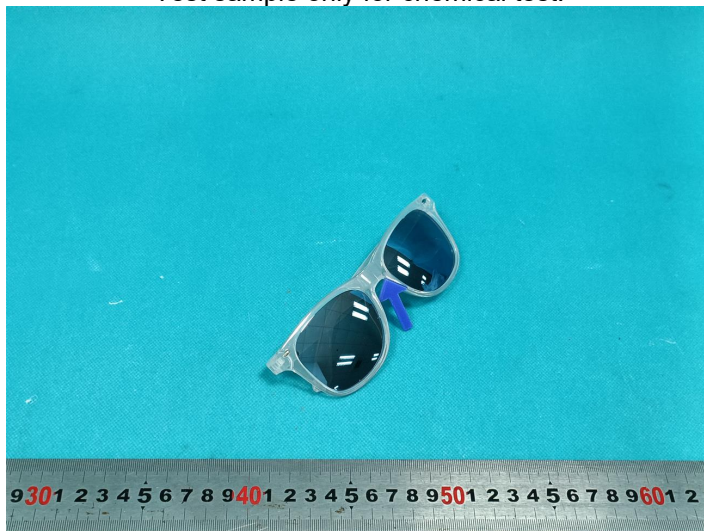
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Sample Photo:

Test sample only for chemical test.



SGS authenticate the photo on original report only

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