



## Test Report

No.: NBHL1911018940SG-02

Date: DEC. 27, 2019

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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, 62700  
BRNO | CZECH REPUBLIC

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.: NBHL1911018940SG-01, DATE: DEC. 11, 2019

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

Sample Description : SUNGLASSES

Sample Quantity : 14PCS  
Item No : REF.: 98317  
Buyer : PAUL STRICKER SA  
Supplier : 9368  
Manufacturer : 9368  
Client Reference Information : ALL COMPANIES UNDER STRICKER GROUP  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Receiving Date : NOV. 14, 2019  
Testing Period : NOV. 14, 2019 TO DEC. 27, 2019



SGS-CSTC Technical Services Co., Ltd.  
Ningbo Branch Headquarters

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### Test Requested

- |   | <u>Result</u> |
|---|---------------|
| 1. 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 Information and labeling As per client's requirement) | <u>Pass</u>   |
| 2. UV 400 (The transmittance between 280nm and 400nm)   | <u>Pass</u>   |
| 3. Entry No. 23 of Annex XVII of REACH Regulation (EC) No 1907/2006 amended by Commission Regulation (EU) No 835/2012, (EU) No 494/2011 and (EU) No 217/2016 - Cadmium (Cd)   | <u>Pass</u>   |
| 4. Commission Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Total Lead   | <u>Pass</u>   |

\*\*\*\*\*

Since the above data and / or information is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. Testing results only apply to the sample as received.

The declaration of conformity is only based on the actual value of laboratory activity, measurement uncertainty of the results not take into account.

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 12312-1:2013+A1:2015 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 solaria;  
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 :  $23 \pm 5^\circ\text{C}$ , 4 hours  
before tests  
Test Condition :  $16^\circ\text{C} - 32^\circ\text{C}$ ,  $50 \pm 20\%$  RH  
Test Result : Details shown as following table:-  
Remark : Transmittance and Optical Properties are measured at reference point (visual centre)

Test Item	Result	Note
<b>Clause 4 Construction and materials:</b>		
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
<b>Clause 5 Transmittance</b>		
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	See Note 1
Clause 5.3.2 Requirements for road use and driving	--	--
Clause 5.3.2.1 General	N/A	See Note 9
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
Clause 5.3.5.1.2 Blue-light transmittance	N/A	No claims, See Note 3



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### Clause 5 Transmittance

Clause 5.3.5.2 UV absorption/transmittance	---	---
Clause 5.3.5.2.1 General	---	---
Clause 5.3.5.2.2 Solar UV absorption	N/A	No claims, See Note 3
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	N/A	No claims, See Note 3
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	N/A	No claims, See Note 3
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 --

### 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	N/C	See Note 4,7
Clause 12.2 Additional information	--	See Note 8

Note(s) : # 1 No claim information of category was provided with the sample.

Category: 3

Luminous transmittance,  $\tau_v$  (%):

	White	Black	Dark blue
Left Filter	14.28%	13.74%	13.05%
Right Filter	13.94%	14.02%	12.63%



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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 No label was provided for reviewing in time of testing.
- # 8 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.
- # 9 There is a pattern in the instruction that claims the lenses are not suitable for driving and road use.

**Table I. Category requirements for sunglasses filters for general use**

Description label	Filter category	Requirements			
		Ultraviolet spectral range		Visible spectral range	
		Maximum value of solar UV-B transmittance, $\tau_{SUVB}$	Maximum value of solar UVA transmittance, $\tau_{SUVA}$	Range of luminous transmittance, $\tau_V$	
		280-315 nm	315-380 nm	From over %	To and include%
Light tint sunglasses	0	0.05 $\times \tau_V$	$\tau_V$	80.0	100
	1			43.0	80.0
General purpose sunglasses	2	1.0% or 0.05 $\times \tau_V$ (whichever is greater)	0.5 $\times \tau_V$	18.0	43.0
	3	1.0%		8.00	18.0
Very dark Special Purpose sunglasses	4	1.0%	1.0% or 0.25 $\times \tau_V$ (whichever is greater)	3.00	8.00



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### 2. UV 400

Test method: With reference to clause 7.1.1 of EN ISO 12311:2013 (the calculation of mean of the weighted spectral transmittance between 280nm and 400nm refer to clause 7.1.2 and 7.3.1 of BS EN ISO 12311:2013)

For white one

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements	Result
Solar UV Transmittance, $\tau_{\text{SUV}}$ (280nm – 400nm)	0.40	0.41	$\leq 0.5\%$	PASS
Solar UVA Transmittance, $\tau_{\text{SUVA}}$ (315nm – 400nm)	0.43	0.44	$\leq 0.5\%$	PASS
Solar UVB Transmittance, $\tau_{\text{SUVB}}$ (280nm – 315nm)	0.39	0.40	$\leq 0.5\%$	PASS

For black one

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements	Result
Solar UV Transmittance, $\tau_{\text{SUV}}$ (280nm – 400nm)	0.43	0.42	$\leq 0.5\%$	PASS
Solar UVA Transmittance, $\tau_{\text{SUVA}}$ (315nm – 400nm)	0.45	0.45	$\leq 0.5\%$	PASS
Solar UVB Transmittance, $\tau_{\text{SUVB}}$ (280nm – 315nm)	0.41	0.40	$\leq 0.5\%$	PASS

For dark blue one

Performance Parameter	Value (%) (Left Filter)	Value (%) (Right Filter)	Requirements	Result
Solar UV Transmittance, $\tau_{\text{SUV}}$ (280nm – 400nm)	0.41	0.42	$\leq 0.5\%$	PASS
Solar UVA Transmittance, $\tau_{\text{SUVA}}$ (315nm – 400nm)	0.44	0.45	$\leq 0.5\%$	PASS
Solar UVB Transmittance, $\tau_{\text{SUVB}}$ (280nm – 315nm)	0.40	0.40	$\leq 0.5\%$	PASS



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### Sample Photo:

Test sample only for EN ISO 12312-1 & UV 400 test.



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### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	NGB19-057977.001	White plastic frame

### Remarks :

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



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### 3. Entry No. 23 of Annex XVII of REACH Regulation (EC) No 1907/2006 amended by Commission Regulation (EU) No 835/2012, (EU) No 494/2011 and (EU) No 217/2016 - Cadmium (Cd)

Test Method : With reference to EN 1122:2001 Method B. Analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	0.01	%	0.0005	ND
Conclusion				PASS

### 4. Commission Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Total Lead

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by AAS.

Test Item(s)	Limit	Unit	MDL	001
Lead (Pb)	500	mg/kg	20	ND
Conclusion				PASS

#### Notes :

(1) 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/cm<sup>2</sup>/h (equivalent to 0.05 µg/g/h). However, the legal text does not define a specific method for the demonstration of release rate while the Commission may develop a method for Lead migration.



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1-5F West No. 4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574)87767006 f (86-574)87768122 www.ssgroup.com.cn  
 中国·浙江·宁波市国家高新区凌云路1177号凌云产业园4号楼西1-5层 邮编: 315040 t (86-574)87767006 f (86-574)87768122 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Test Report

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### Sample Photo:

Test sample only for chemical test.



SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*



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SGS-CSTC Technical Services Co., Ltd.  
Ningbo Branch

1-5F West No. 4 Building, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, China 315040 t (86-574)87767006 f (86-574)87768122 www.ssgsgroup.com.cn  
中国·浙江·宁波市国家高新区凌云路1177号凌云产业园4号楼西1-5层 邮编: 315040 t (86-574)87767006 f (86-574)87768122 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)