

## Test Report

Number: SZHH01633358S1

Applicant: YIWU ROCK SPORTING GOODS CO.,LTD  
4/F,A BLOCK,  
NO.2 DANCHEN 1ST ROAD,  
BEIYUAN DISTRICT,  
YIWU CITY, 322000,  
ZHEJIANG, CHINA  
Attn: CHENG LI

Date: Dec 02, 2021

This is to supersede Report No.  
SZHH01633358 dated Dec 01,  
2021

### Sample Description:

Five (5) pieces of submitted sample said to be :

Item Name : **Bicycle Glasses**  
Item No. : **SP25**  
Reference No. : SP65 SP246 SP247 SP252 SP32 SP49 S1130 SP83 SP28  
Date Sample Received : Nov 24, 2021  
Testing Period : Nov 24, 2021 ~ Dec 01, 2021

### Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

### Conclusion:

<u>Tested sample</u>	<u>Requirement</u>	<u>Result</u>
Submitted samples	EN ISO 12312-1:2013+A1:2015 Eye and face protection – Sunglasses and related eyewear– Part 1: Sunglasses for general use	Pass

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.



Rachel L. Guo  
General Manager



**Test Report**

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Tests Conducted

1 Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: EN ISO 12312-1:2013+A1:2015 – Eye and face protection – Sunglasses and related eyewear - Part 1: Sunglasses for general use.

Test method refers EN ISO 12311:2013 Personal protective equipment – test methods for sunglasses and related eyewear.

Number of samples tested: Five (5) pairs of sunglasses

Note:

- (1) The submitted sunglasses were declared by applicant for adult use
- (2) **Physiological compatibility**  
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 is not specified in EN ISO 12312-1:2013+A1:2015 but per Regulation (EU) 2016/425, Article 16 & Article 17, the CE marking shall be affixed visibly, legibly and indelibly to the sunglasses frame. The format of this CE marking was given in Annex II of Regulation (EC) No 765/2008

It was found that the CE marking was provided on the sunglasses frame, but the minimum height of CE marking was less than 5 mm.

- (4) No final packaging but artwork was provided for reviewed, and the height of the symbol was not verified.

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



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Clause	Requirement	Result
5.3.2	Requirements for road use and driving	
5.3.2.1	General requirements	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 (Note (4))
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	
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 labelling	
12.1	Information to be supplied with each pair of sunglasses	P (Note (3) & (4))
12.2	Additional information	P

Abbreviation: P = Pass; NA = Not Applicable



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**Test data**

5.2 Transmittance and filter categories

Range	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm ( $\tau_v$ )	15.18	15.56	3

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280-315nm ( $\tau_{SUVB}$ )	0.15	0.14	$\leq 1.0$	$\leq 1.0$
315-380nm ( $\tau_{SUVA}$ )	0.19	0.20	$\leq 0.5\tau_v$ (7.59)	$\leq 0.5\tau_v$ (7.78)

Requirement: (Table 1)

Consumer label	Technical label	Requirements		
Descriptive label	Filter category	Ultraviolet spectral range		Visible spectral range
		Maximum value of solar UV-B transmittance $\tau_{SUVB}$ 280 nm to 315 nm	Maximum value of solar UV-A transmittance $\tau_{SUVA}$ 315 nm to 380 nm	Range of luminous transmittance ( $\tau_v$ ) 380 nm to 780 nm
Light tint sunglasses	0	$0.05\tau_v$	$\tau_v$	$\tau_v > 80\%$
	1	$0.05\tau_v$	$\tau_v$	$43\% < \tau_v \leq 80\%$
General purpose sunglasses	2	1.0% absolute or $0.05\tau_v$ , whichever is greater	$0.5\tau_v$	$18\% < \tau_v \leq 43\%$
	3	1.0% absolute	$0.5\tau_v$	$8\% < \tau_v \leq 18\%$
Very dark special purpose sunglasses	4	1.0% absolute	1.0% absolute or $0.25\tau_v$ , whichever is greater	$3\% < \tau_v \leq 8\%$

5.3.1 Uniformity of luminous transmittance

Uniformity	Left ocular	Right ocular	Limit (%)
% variation within filter [relative to higher value]	9.06	7.44	$\leq 10$
% difference between filters [relative to lighter filter]	2.44		$\leq 15$

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 the applicant.



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5.3.2.1a Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left ocular	Right ocular
475 - 650nm	13.80	14.15	$\geq 0.2\tau_v$ (3.04)	$\geq 0.2\tau_v$ (3.11)

5.3.2.1b Detection of signal lights

Signal light	Relative visual attenuation quotient, Q		Limit
	Left ocular	Right ocular	
Red	1.07	1.07	$\geq 0.80$
Yellow	1.01	1.01	$\geq 0.60$
Blue	1.04	1.03	$\geq 0.60$
Green	1.01	1.00	$\geq 0.60$

5.3.3 Wide angle scattering

Wide angle scattering (%)	Left ocular	Right ocular	Requirement
	0.27	0.36	$\leq 3$

6.1 Optical power of oculars mounted in spectacles

Optical power	Left ocular	Right ocular	Limit
Spherical power ( $m^{-1}$ )	0.01	0.01	$\pm 0.12$
Astigmatic power ( $m^{-1}$ )	0.00	0.00	$\leq 0.12$
Difference of spherical power between left and right filters ( $m^{-1}$ )	0.00		$\leq 0.18$

6.3 Prism imbalance (relative prism error)

Prismatic power difference (cm/m)		Limit (cm/m)
Horizontal	Base out	--
	Base in	0.010
Vertical		0.031

7.1 Minimum robustness of filters

Assessment	Result
Filter fracture	Not found
Filter deformation	Not found

7.2 Frame deformation and retention of filters

Assessment	Result
Frame fracture or crack at any point	Not found
Frame deformation (%)	0.11   Requirement: $\leq 2$
Filter displace from the frame	Not found



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8 Resistance to radiation

(a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	1.84	<u>Requirement</u> ± 3% for category 0 ± 5% for category 1 ± 8% for category 2 ± 10% for categories 3 & 4
Right ocular (%)	1.67	

(b) Wide angle scattering after irradiation

Left ocular (%)	Right ocular (%)	Requirement (%)
0.95	1.11	≤ 3

(c) UV transmittance after irradiation process

Range	Maximum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
280-315nm ( $\tau_{SUVB}$ )	0.12	0.12	≤ 1.0	≤ 1.0
315 - 380nm ( $\tau_{SUVA}$ )	0.21	0.22	≤ 0.5 $\tau_v$ (7.73)	≤ 0.5 $\tau_v$ (7.91)

After the solar radiation process, the submitted sample also met the requirement for the ultraviolet spectral range for  $\tau_v$  as given by Table 1 of the standard.

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End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band  $w = U$ ) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek.



To: YIWU ROCK SPORTING GOODS CO.,LTD  
Attention: CHENG LI

Date: Dec 02, 2021

Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01633358 dated Dec 01, 2021

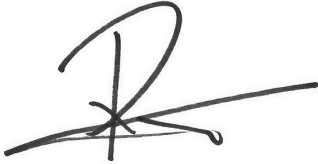
Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number, SZHH01633358S1 dated Dec 02, 2021

Below are revision details:

Report Number	SZHH01633358	SZHH01633358S1
Revise remark	Nil	Delete photo

Thank you for your attention.

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.



Rachel L. Guo  
General Manager

