

**Test Report**

Number: SZHH01484883

Applicant: FOSHAN LIXIN TRADING CO.,LTD  
ROOM 1107,BUILDING NO.2,SANXING  
FINANCIAL BUILDING, NORTH  
LISHUI ROAD,LISHUI TOWN,NANHAI,  
FOSHAN, GUANGDONG, CHINA

Date: Aug 03, 2020

Attn: JESSICA

**Sample Description:**

One (1) piece of submitted sample said to be :  
Item Name : **UV Protective Sun Visor.**  
Country of Origin : China.  
Date Sample Received : Jul 27, 2020.  
Testing Period : Jul 27,2020 ~ Aug 03, 2020.



**Tests conducted:**

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

**Conclusion:**

Tested sample  
Submitted samples

Standard  
ANSI Z80.3: 2018  
Nonprescription sunglasses and fashion eyewear  
requirements (Partial tests)

Result  
See test conducted

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.

Rachel L. Guo  
General Manager



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1 Requirements for Sunglasses (Uniformly Tinted Lenses)

Test standard: ANSI Z80.3: 2018 Nonprescription sunglasses and fashion eyewear requirements

Number of samples tested: One (1) piece.

Note:

- (1) This standard is not applicable to this submitted sample but was adopted as reference.
- (2) As per applicant's request, selective clauses as shown in the following table were conducted.

Section	Requirement	Result
4.9	Refractive properties	
4.9.1	Refractive power	P
4.9.2	Astigmatic power	P
4.9.3	Prismatic power imbalance	P
4.10.1	Luminous transmittance	P
4.10.2.1	Color limits	P
4.10.2.2	Traffic signal transmittance	P
4.10.2.3	Spectral transmittance	P
4.10.3	Ultraviolet mean transmittance	P

Abbreviation: P = Pass

Test data:

4.9 Refractive properties

Refractive properties		Left ocular	Right ocular	Limit
4.9.1 Refractive power				
Refractive power (m <sup>-1</sup> )		-0.02	-0.02	±0.13 m <sup>-1</sup>
4.9.2 Astigmatic power				
Astigmatic power (m <sup>-1</sup> )		0.02	0.04	≤ 0.13 m <sup>-1</sup>
4.9.3 Prismatic power imbalance				
Prismatic imbalance (as worn), (cm/m)	Horizontal	0.278		≤0.5 cm/m
	Vertical	0.014		≤0.25 cm/m

4.10.1 Luminous transmittance

Range	Left ocular (%)	Right ocular (%)	Primary function and shade
380 - 780 nm (Tv)	8.07	8.50	General purpose



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4.10.2.1 Color limits

Color limits	Left ocular		Right ocular	
	X-value	Y-value	X-value	Y-value
Yellow signal color coordinates	0.58	0.42	0.58	0.42
Green signal color coordinates	0.20	0.47	0.20	0.46
Average daylight (D65) color coordinates	0.32	0.39	0.31	0.38

4.10.2.2 Transmittance properties related to traffic signal recognition

Traffic signal transmittance	Left ocular (%)	Right ocular (%)	Limit (%)
Red signal	8.86	9.91	≥ 8
Yellow signal	7.42	7.88	≥ 6
Green signal	8.74	9.21	≥ 6
Luminous transmittance	8.07	8.50	≥ 8

4.10.2.3 Spectral transmittance

Range	Minimum transmittance (%)		Limit (%)	
	Left ocular	Right ocular	Left	Right
475 – 650 nm	6.00	6.24	≥ 0.2 τ <sub>v</sub> (1.61)	≥ 0.2 τ <sub>v</sub> (1.70)

4.10.3 Ultraviolet mean transmittance

Range	Maximum transmittance (%)		Limit			
			Normal use		High and prolonged exposure	
	Left ocular	Right ocular	Left	Right	Left	Right
280 - 315 nm (UVB)	0.00	0.00	0.125 τ <sub>v</sub> / 1%	0.125 τ <sub>v</sub> / 1%	1%	1%
315 - 380 nm (UVA)	0.03	0.03	τ <sub>v</sub> / 0.5 τ <sub>v</sub>	τ <sub>v</sub> / 0.5 τ <sub>v</sub>	1% / 0.5 τ <sub>v</sub>	1% / 0.5 τ <sub>v</sub>



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Requirement:

Primary function	Luminous transmittance	Transmittance properties relating to traffic signal recognition				Mean transmittance, $\tau(\lambda_1, \lambda_2)$ , ultraviolet spectral region			
		Color limits and chromaticity coordinates	Minimum traffic signal transmittance $\tau(\text{sig})$			UVB or erythema zone (280-315nm)		UVA or near UV zone (315-380nm)	
			Red signal	Yellow signal	Green signal	Normal use	High and prolonged exposure	Normal use	High and prolonged exposure
Cosmetic lens or shield, light	Greater than 40%	Refer to Fig.1	8%	6%	6%	0.125 $\tau_V$ max	1% max	$\tau_V$ max	0.5 $\tau_V$ max
General purpose lens or shield, medium to dark	8 - 40%	Refer to Fig.1	8%	6%	6%	0.125 $\tau_V$ max	1% max	$\tau_V$ max	0.5 $\tau_V$ max
Special purpose lens or shield, very dark	3 - 8%	Data do not meet the requirements of 4.10.2				1% max	1% max	0.5 $\tau_V$ max	0.5 $\tau_V$ max
Special purpose lens or shield, strongly colored	Greater than 8%	Data do not meet the requirements of 4.10.2 (See Note below)				1% max	1% max	0.5 $\tau_V$ max	0.5 $\tau_V$ max

Abbreviation : < = Less than  
> = More than  
≤ = Less than or equal to

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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.

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