

Mechanical & Hardgoods Laboratory

Report No.: YA20058/2019

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Date: MAR. 07, 2019

SLP PENTERPRISES LLC

60 THOREAU STREET, CONCORD, MA, 01742, U.S.A.

The following merchandise was submitted and identified by the applicant as:

Product Description: KIDS SUNGLASSES

Style/Item No.: SURF
Country of Origin: TAIWAN

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested: EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related

eyewear — Part 1:Sunglasses for general use Clause 4.1, 4.2, 5.2, 5.3, 6.1, 6.2, 6.3, 7.1, 8, 9

Test Method & Result: --- See following sheet(s) ---

Date of Receipt: FEB. 23, 2019

Testing Period: FEB. 23 ~ MAR. 07, 2019

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Signed for and on behalf of SGS Taiwan Ltd.

Owen Cheng

Manager

Laboratory address:

61, Kai-Fa Road, Nanzih Export Processing Zone, 81170, Kaohsiung, Taiwan

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Test Method & Result

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

Clause

Result

4 Construction and materials

4.1 Construction

Pass

Finding

Sample was assessed. None of the defects listed in the Standard was appeared.

4.2 Filter material and surface quality

Pass

Finding

Sample was assessed. None of the defects listed in the Standard was appeared.

- 5 Transmittance
- 5.2 Transmittance and filter categories

Category 3

Finding

Comple	Filter	Danga	Daguirament	Test Value	
Sample	Category	Range	Requirement	Left Ocular	Right Ocular
		380 ~ 780 nm Luminous Transmittance (Tv)	8 ~ 18 %	13.73 %	12.00 %
1	3	280 ~ 315 nm TSUVB	<1.0 %	0.00 Tv (0.01 %)	0.00 Tv (0.01 %)
		315 ~ 380 nm TSUVA	< 0.5 Tv	0.00 Tv (0.01 %)	0.00 Tv (0.01 %)

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Test Result

<u>Clause</u> <u>Result</u>

5.3 General transmittance requirements

5.3.1 Uniformity of luminous transmittance

Pass

Pass

Finding

	Sample	Filter	Test Item	Daguiramant	Test Value	
		Category		Requirement	Left Ocular	Right Ocular
	1	3	Variation within filter	< 10 %	2.39 %	0.72 %
			Difference between filter	≤15 %	12.:	56 %

5.3.2 Requirements for road use and driving

5.3.2.1 General

Filters suitable for road use and driving shall be of categories 0, 1, 2 or 3 and shall additionally meet the following two requirements.

(a) Spectral transmittance

Finding

Sample	Filter	Danga	Requirement (Minimum	Test	Value
Sample	Category	Range	Spectral Transmittance)	Left Ocular	Right Ocular
1	3	475 ~ 650 nm	≧0.2 Tv	0.89 Tv (12.20 %)	0.90 Tv (10.76 %)

(b) Detection of signal lights

Finding

Sample	Filter	The Relative Visual	Requirement	Test Value	
Sample	Category	Attenuation Quotient Q	Requirement	Left Ocular	Right Ocular
		Red	\geq 0.80	1.17	1.19
	3	Yellow	\geq 0.60	1.05	1.06
		Green	\geq 0.60	0.97	0.97
		Blue	≧0.60	0.97	0.96

5.3.2.2 Driving in twilight or at night

See Note *

Note *: Sunglass filters with a luminous transmittance of less than 75% shall not be used for road use and driving in twilight or at night.

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Test Result

<u>Clause</u> 5.3.3 Wide angle scattering

Result Pass

Finding

Sample	Requirement	Test Value	
Sample	Requirement	Left Ocular	Right Ocular
1	≦3 %	1.9 %	1.9 %

6 Refractive power

6.1 Spherical and astigmatic power

Pass

Finding

Commis	Dagwinson	Spherical Power (m ⁻¹)		Astigmatic Power (m ⁻¹)	
Sample	Requirement	±0.12		≦0.12	
	Test Value	Left Ocular	Right Ocular	Left Ocular	Right Ocular
2		-0.04	-0.02	0.06	0.06

Sample	The Spherical Powers Difference Between Right And Left Filters (m ⁻¹)	Test Value (m ⁻¹)
2	≦0.18	0.02

6.2 Local variations in refractive power

N/A

6.3 Prism imbalance (relative prism error)

<u>Pass</u>

Finding

		Prism Imbalance			
Commite	Requirement	Horizont	Vantical (and/m)		
Sample		Base Out	Base In	Vertical (cm/m)	
		< 1.00	< 0.25	< 0.25	
2	Test Value	0.15		0.00	

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Test Result

<u>Clause</u> <u>Result</u>

7 Robustness

7.1 Minimum robustness of filters

Pass

Finding

Sample was assessed. None of the defects listed in the Standard was appeared on both left and right oculars.

8 Resistance to solar radiation

Pass

Finding

Comple	Filtor Cotogory	Permitted Relative Change In	Test Value	
Sample	Filter Category	Luminous Transmittance After Test	Left Ocular	Right Ocular
1	3	±10 %	1.17 %	2.42 %

Following additional requirements shall be complied with also after the irradiation process.

Finding

a. Wide angle scattering

Pass

Sample	ample Requirement	Test Value	
Sample	Requirement	Left Ocular	Right Ocular
1	≦3 %	1.7 %	1.9 %

b. Requirements For The Ultraviolet Spectral Range For Initial Tv (Luminous Transmittance)

Pass

Comple	Filter	Danga	Daguiramant	Test Value	
Sample	Category	Range	Requirement	Left Ocular	Right Ocular
1	3	280 ~ 315 nm	<1 %	0.00 Tv	0.00 Tv
		TSUVB		(0.01 %)	(0.01 %)
		315 ~ 380 nm	<0.5 Tv	0.00 Tv	0.00 Tv
		TSUVA		(0.01 %)	(0.01 %)

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Test Result

<u>Clause</u> 9 Resistance to ignition

Result Pass

Finding

Sample was assessed. Sample was not ignited or continued to glow after removal of the steel rod.

- Picture(s) -



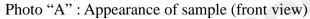




Photo "B": Appearance of sample (side view)

--- End of Report ---

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