

Mechanical & Hardgoods Laboratory

Report No.: YA20059/2019

Page: 1 of 6

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

<u>Style/Item No.:</u> SURF <u>Country of Origin:</u> TAIWAN

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

Test Requested: AS/NZS 1067.1:2016 Eye and face protection — Sunglasses and fashion

spectacles — Part 1: Requirements

Clause 4.1, 4.2, 5.2, 5.3, 6.1, 6.2, 6.3, 7.3, 8, 9

<u>Test Method & Result:</u> --- See following sheet(s) ---

Date of Receipt: FEB. 23, 2019

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

--- See Next Page ---

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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Mechanical & Hardgoods Laboratory

Report No.: YA20059/2019

Page: 2 of 6

Test Method & Result

AS/NZS 1067.1:2016 Eye and face protection — Sunglasses and fashion spectacles — Part 1: Requirements

<u>Clause</u> 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

<u>Pass</u>

Result

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 Category	Danga	Paguirament	Test	Value
Sample		Range	Requirement	Left Ocular	Right Ocular
		380 ~ 780 nm Luminous Transmittance (Tv)	8 ~ 18 %	13.73 %	12.00 %
1	3	280 ~ 315 nm TSUVB	<0.05 Tv	0.00 Tv (0.01 %)	0.00 Tv (0.01 %)
		315 ~ 400 nm TSUVA	<0.5 Tv	0.00 Tv (0.01 %)	0.00 Tv (0.01 %)

--- See Next Page ---

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Mechanical & Hardgoods Laboratory

Report No.: YA20059/2019

Page: 3 of 6

Test Result

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

5.3 General transmittance requirements

5.3.1 Uniformity of luminous transmittance

Pass

Finding

	Sample	Filter	Test Item	Daguiramant	Test	Value
		Category	rest item	Requirement	Left Ocular	Right Ocular
	1	3	Variation within filter	<10 %	2.39 %	0.72 %
			Difference between filters	≦ 15 %	12	56 %

5.3.2 Requirements for road use and driving

5.3.2.1 General

<u>Pass</u>

Filters suitable for road use and driving shall be of categories 0, 1, 2 or 3 and shall additionally meet the requirements cited in Clauses 5.3.2.2, 5.3.2.3 and 5.3.2.4.

5.3.2.2 Spectral transmittance

Pass

Finding

-	0					
Comple		Filter	Danga	Requirement (Minimum	Test	Value
	Sample	Category	gory Range	Spectral Transmittance)	Left Ocular	Right Ocular
ĺ	1	2	175 650 nm	≥0.2 Tv	0.89 Tv	0.90 Tv
	1	3 475 ~ 650 nm	€0.2 TV	(12.20 %)	(10.76 %)	

5.3.2.3 Detection of signal lights

Pass

Finding

Sample	Filter	The Relative Visual	Requirement	Test Value	
Sample	Category	ry Attenuation Quotient Q	Requirement	Left Ocular	Right Ocular
		Red	\geq 0.80	1.17	1.19
1	2	Yellow	≥0.60	1.05	1.06
1	3	Green	≥0.60	0.97	0.97
		Blue	≥0.70	0.97	0.96

5.3.2.4 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.

--- See Next Page ---

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Mechanical & Hardgoods Laboratory

Report No.: YA20059/2019

Page: 4 of 6

Test Result

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

Result Pass

Finding

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

6 Refractive power

6.1 Spherical and astigmatic power

<u>Pass</u>

Finding

Commis	Daguiramant	Spherical Power (m ⁻¹)		Astigmatic Power (m ⁻¹)		
	Sample	Requirement	±0.12		± 0.09	
	2	Test Value	Left Ocular	Right Ocular	Left Ocular	Right Ocular
		Test value	-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		
C1-	D	Horizont	al (cm/m)	Vertical (cm/m)	
Sample	Requirement	Base Out	Base In	vertical (chi/iii)	
		< 1.00	< 0.25	< 0.25	
2	Test Value	0.15		0.00	

⁻⁻⁻ See Next Page ---

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Mechanical & Hardgoods Laboratory

Report No.: YA20059/2019

Page: 5 of 6

Test Result

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

7 Robustness

7.3 Robustness and filter retention

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	$\pm10\%$	1.17 %	2.42 %

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

a. Wide angle scattering

Pass

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

c. Requirements For The Ultraviolet Spectral Range For Initial Tv0 (Luminous Transmittance)

Pass

				,	
Sample	Filter	Dongo	Requirement Test Valu		Value
	Category	Range	Requirement	Left Ocular	Right Ocular
1	3	280 ~ 315 nm	<0.05 Tv	0.00 Tv	0.00 Tv
		TSUVB	< 0.03 TV	(0.01 %)	(0.01 %)
		315 ~ 400 nm	< 0.5 Tv	0.00 Tv	0.00 Tv
		TSUVA		(0.01%)	(0.01 %)

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Report No.: YA20059/2019

Page: 6 of 6

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) -



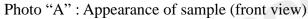




Photo "B": Appearance of sample (side view)

--- End of Report ---

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