

Hardline Laboratory

### Suzhou LYlap Optical Technology Co., Ltd.

NO. 66-26 Linggang Road, Luzhi Town, Wuzhong District, Suzhou, Jiangsu

The following merchandise was submitted and identified by the applicant as:					
Style/Item No .:	LYM001				
Manufacturer/Vendor:	Suzhou LYlap Optical Technology Co., Ltd.				
SGS Reference No.:	SHHL2004512248MD				

We have tested the submitted sample(s) as requested and the following results were obtained:Test Requested:ANSI/ISEA Z87.1-2015 American National Standard for Occupational and<br/>Educational Personal Eye and Face Protection Devices

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

Date of Receipt: APR. 20, 2020

Testing Period: APR. 20 ~ MAY 08, 2020 --- See Next Page ---

> Signed for and on behaloof SGS Taiwan Ltd. Owen Cheng Manager

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of

May 08, 2020

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Date :

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

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Hardline Laboratory

## **Test Method & Result**

ANSI/ISEA Z87.1-2015 American National Standard for Occupational and Educational **Personal Eye and Face Protection Devices** 

Section

5. General Requirements **5.1 Optical Requirements** 

5.1.1 Optical Quality

5.1.2 Luminous Transmittance

### Finding

	Luminous Transmittance	Test Value		
Lens Type	Requirement	Left Ocular	Right Ocular	
Clear Lenses	85% min.	89.14 %	87.51 %	

### 5.1.3 Haze

#### Finding

J T		H D i i	Test Value		
	Lens Type	Haze Requirement	Left Ocular	Right Ocular	
_	Clear Lenses	3% max. – Clear Lenses Only	1.1 %	1.0 %	

5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Pass Protectors

## Finding

Test/Droperty	Dequinement	Test Value			
Test/Property	Requirement	Left Ocular	Right Ocular		
Refractive Power	No requirement	No requirement No requirement			
Astigmatism	No requirement	No requirement No requiren			
Resolving Power	Pattern 20 min.	Pattern 20	Pattern 20		
Prism	$\leq$ 0.37 $\Delta$	$< 0.37 \Delta$ $< 0.37 \Delta$			
Vertical Prism Imbalance	$\leq$ 0.37 $\Delta$	$0.00 \Delta$			
Horizontal Prism Imbalance	$ \leq 0.125 \Delta \text{ (Base In)} \\ \leq 0.75 \Delta \text{ (Base Out)} $	$0.10 \Delta$ (Base Out)			

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Result

Pass

Pass

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Pass



Hardline Laboratory Report No. : YA40091/2020 Page : 3 of 6 **Test Result** Section Result 5.1.5 Refractive Power, Astigmatism, Prism and Prism Imbalance for Prescription Protectors and N/A Magnifiers **5.2 Physical Requirements** Pass 5.2.1 Drop Ball Impact Resistance Pass See Finding Finding None of the following defects occurred: - Lens (Lens only) fractures - piece fully detached from the inner surface - projectile penetrates the inner surface - lens not retained 5.2.2 Ignition Pass 5.2.3 Corrosion Resistance of Metal Components N/A 5.2.4 Minimum Coverage Area Pass 5.3 Markings See Finding Protector markings shall be placed in relatable proximity to each other on the product in the sequence specified below: -Manufacturer's marks or logos -Designation of standard (Z87 or Z87-2, for prescription devices) -Individual claims of compliance -Impact-rated marking (+) -Lens type -Use applications

### Finding

	Manufacturer's marks or logo		Impact Mark		Lens Type	Use
Lens: Frame:	No Claim No Claim	No Claim		No Claim No Claim	No Claim	No Claim

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Test Result					
Section				<u>Result</u>	
5.4 Other Requirements				<u>N/A</u>	
5.5 Replaceable Lenses				<u>N/A</u>	
5.6 Aftermarket Components and Accessories				<u>N/A</u>	
6. Impact-Rated Protector Requirements				<u>N/A</u>	
6.1 General					
6.1.1 Protectors Marked for Impact Protection				<u>N/A</u>	
6.1.2 Frames and Shells				<u>N/A</u>	
6.1.3 Lateral (Side) Coverage				<u>N/A</u>	
<ul><li>6.2 Impact Requirements</li><li>6.2.1 Protector Acceptance Criteria</li></ul>					
0.2.1 Protector Acceptance Chiefia					
6.2.2 High Mass Impact				<u>N/A</u>	
6.2.3 High Velocity Impact				<u>N/A</u>	
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Test Result Section				Result
6.2.4 Penetration Test (lenses only)				<u>N/A</u>
6.2.5 Prescription Lens Material Qualification				<u>N/A</u>
6.2.6 Prescription Lens Mounting Qualification				<u>N/A</u>
6.2.7 Devices with Lift Fronts				<u>N/A</u>
7. Optical Radiation Protector Requirements				<u>N/A</u>
8. Droplet and Splash, Dust, and Fine Dust Protection Requirements 8.1 Droplet and Splash Hazard				Pass
				<u>1 ass</u>
<b><u>Remark:</u></b> 1. The samples are complete devices claimed by applicant. 2. Samples were provided by applicant and samples were ra 3. N/A = Not Applicable	andomly s	elected to	be asses	ssed.

- 4. Only applicable sections were shown.
- 5. The content of this report is invalid if it is not presented as the entire report.
- 6. The statement of conformity is based on the test results, but does not include the measurement uncertainty.
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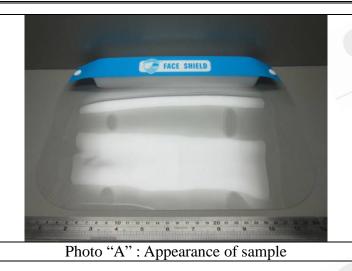


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