

## TEST REPORT

Hardline Laboratory

Report No. : YA40042/2020

Page : 1 of 6

Date : APR. 20, 2020

**Suzhou LYIap 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:**

Product Description: Medical isolation eye mask

Style/Item No.: LYS001

SGS Reference No.: SHHL2004509751MD

**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 Educational Personal Eye and Face Protection Devices

Optional Requirements: 8.1 Droplet and Splash Hazard

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


Date of Receipt: APR. 06, 2020

Testing Period: APR. 06 ~ 20, 2020

--- See Next Page ---

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

Signed for and on behalf of  
SGS Taiwan Ltd.

  
Owen Cheng  
Manager



## TEST REPORT

Hardline Laboratory

Report No. : YA40042/2020

Page : 2 of 6

### 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

Result

Pass

5.1.2 Luminous Transmittance

Pass

#### **Finding**

Lens Type	Luminous Transmittance Requirement	Test Value (%)	
		Left Ocular	Right Ocular
Clear Lenses	85% min.	93.78	94.32

#### **Finding**

Transmittance requirements for Ultraviolet Filter Lenses			Test Value (%)	
Scale	Transmittance Requirements (%)		Left Ocular	Right Ocular
U6	Maximum Effective Far-Ultra-Violet Average Transmittance %	0.01	0.006	0.004
	Maximum Near Ultra-Violet Average Transmittance %	0.1	0.091	0.094

5.1.3 Haze

Pass

#### **Finding**

Lens Type	Haze Requirement	Test Value (%)	
		Left Ocular	Right Ocular
Clear Lenses	3% max. – Clear Lenses Only	0.1	0.1

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

Pass

#### **Finding**

Test/Property	Requirement	Test Value	
		Left Ocular	Right Ocular
Refractive Power	$\pm 0.06$ D	0.00	0.00
Astigmatism	$\leq 0.06$ D	0.00	0.00
Resolving Power	Pattern 20 min.	Pattern 20	Pattern 20
Prism	$\leq 0.25$ $\Delta$	$< 0.25$ $\Delta$	$< 0.25$ $\Delta$
Vertical Prism Imbalance	$\leq 0.125$ $\Delta$	0.00 $\Delta$	
Horizontal Prism Imbalance	$\leq 0.125$ $\Delta$ (Base In) $\leq 0.50$ $\Delta$ (Base Out)	0.05 $\Delta$ (Base In)	

--- See Next Page ---

## TEST REPORT

Hardline Laboratory

Report No. : YA40042/2020

Page : 3 of 6

### Test Result

#### Section

5.1.5 Refractive Power, Astigmatism, Prism and Prism Imbalance for Prescription Protectors and Magnifiers

Result

N/A

5.2 Physical Requirements

Pass

5.2.1 Drop Ball Impact Resistance

N/A

**Note:** Protectors first tested to and meeting the requirements of Section 6.2 are exempt from drop ball impact testing.

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		Standard	Impact Mark		Lens Type	Use
Lens:	Absent	Absent	Lens:	Absent	No Claim	No Claim
Frame:	Absent		Frame:	Absent		

--- See Next Page ---

## TEST REPORT

Hardline Laboratory

Report No. : YA40042/2020

Page : 4 of 6

### Test Result

#### Section

5.4 Other Requirements

Result

N/A

5.5 Replaceable Lenses

N/A

5.6 Aftermarket Components and Accessories

N/A

6. Impact-Rated Protector Requirements

N/A

6.1 General

6.1.1 Protectors Marked for Impact Protection

See  
Note\*

**Note\*:** The sample meets impact protection (+) claimed by applicant.

6.1.2 Frames and Shells

Pass

6.1.3 Lateral (Side) Coverage

Pass

6.2 Impact Requirements

6.2.1 Protector Acceptance Criteria

6.2.2 High Mass Impact

Pass

#### **Finding**

Determined	Remark
4 out of 4 Passed	The complete devices met the protector acceptance criteria listed in Section 6.2.1 after testing.

6.2.3 High Velocity Impact

Pass

#### **Finding**

Determined	Remark
6 out of 6 Passed	The complete devices met the protector acceptance criteria listed in Section 6.2.1 after testing.

--- See Next Page ---

## TEST REPORT

Hardline Laboratory

Report No. : YA40042/2020

Page : 5 of 6

### Test Result

#### Section

6.2.4 Penetration Test (lenses only)

Result

Pass

#### Finding

Determined	Remark
4 out of 4 Passed	The complete devices met the protector acceptance criteria listed in Section 6.2.1 after testing.

6.2.5 Prescription Lens Material Qualification

N/A

6.2.6 Prescription Lens Mounting Qualification

N/A

6.2.7 Devices with Lift Fronts

N/A

7. Optical Radiation Protector Requirements

N/A

7.2 Protectors providing Filtration of Optical Radiation

7.2.1 Filter Lenses

7.2.1.1 Transmission Requirements

#### Finding

Transmittance requirements for Ultraviolet Filter Lenses			Test Value (%)	
Scale	Transmittance Requirements (%)		Left Ocular	Right Ocular
U6	Maximum Effective Far-Ultra-Violet Average Transmittance %	0.01	0.006	0.004
	Maximum Near Ultra-Violet Average Transmittance %	0.1	0.091	0.094

8. Droplet and Splash, Dust, and Fine Dust Protection Requirements

8.1 Droplet and Splash Hazard

Pass

#### Remark:

1. The samples are complete devices claimed by applicant.
2. Samples were provided by applicant and samples were randomly selected to be assessed.
3. N/A = Not Applicable
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.

--- See Next Page ---

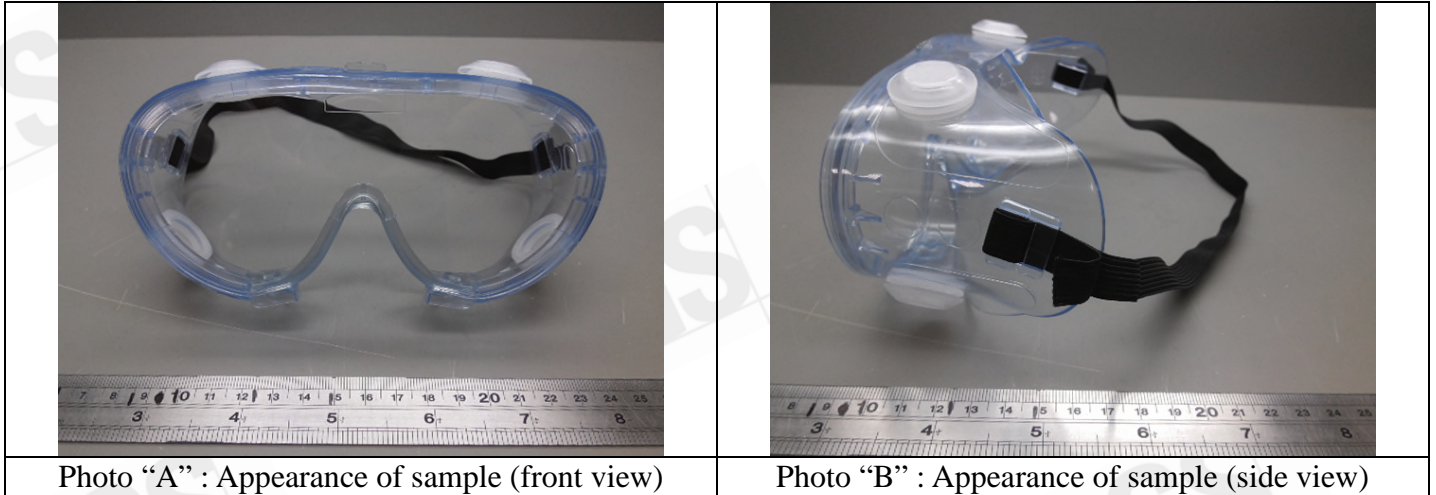
## TEST REPORT

Hardline Laboratory

Report No. : YA40042/2020

Page : 6 of 6

– Picture(s) –



--- End of Report ---