

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 1 of 9

Date : DEC. 17, 2020

Zhejiang Lanhine Medical Products LTD.

1989 Cidong Road, Cidongbinhai District, 315300 Cixi City,
Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA

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

Product Description: Disposable Face Shield
Style/Item No.: 201F
Manufacturer/Vendor: Zhejiang Lanhine Medical Products LTD.
Country of Origin: China
SGS Reference No.: NBHL2009013493MD

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

Test Requested:

1. EN 166:2001 / BS EN 166:2002 Personal eye-protection – Specifications (clause 6.2 not evaluated and clause 7.1.4.2.2 excluded)
2. EN ISO 12312-1:2013+A1:2015 Eye and face protection — Sunglasses and related eyewear — Part 1:Sunglasses for general use
Clause 7.3 Impact resistance of the filter, strength level 1

Optional Requirements: 7.2.4 Protection Against Droplets and Splashes of Liquids (3)

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

Date of Receipt: SEP. 11, 2020 & OCT. 15, 2020 & NOV. 10, 2020

Testing Period: SEP. 11 ~ 25, 2020 & OCT. 15 ~ 16, 2020 & NOV. 10 ~ 19, 2020

Note: Retest according to the applicant's request Clause 7.1.2.3 and 7.1.5.2

--- See Next Page ---

Signed for and on behalf of
SGS Taiwan Ltd.


Justin Yang
Team Leader



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

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 2 of 9

Test Method & Result:

1. EN 166:2001 / BS EN 166:2002 Personal eye-protection – Specifications Personal eye-protection – Specifications

Clause

6 Design and manufacturing requirements

6.1 General construction

Result

Pass

Finding

All samples were assessed. The samples were free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.

6.2 Materials

No parts of the eye-protector which are in contact with the wearer shall be made of materials which are known to cause any skin irritation.

N/E

6.3 Headbands

Pass

7 Basic, particular and optional requirements

7.1 Basic requirements

7.1.1 Field of vision

Pass

Finding

Samples 01 to 03 were assessed. The samples exhibited at least the minimum field of vision as defined by the Standard.

--- See Next Page ---

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 3 of 9

Test Result

Clause

Result

7.1.2 Optical requirements

7.1.2.1 Spherical, astigmatic and prismatic refractive powers

7.1.2.1.2 Mounted oculars and unmounted oculars covering both eyes

Optical Class 1

Finding

Sample	Requirement	Optical Class	Spherical Power (D1+D2)/2 m ⁻¹		Astigmatic Power D1-D2 m ⁻¹	
			± 0.06		Max. 0.06	
		1	Left Ocular	Right Ocular	Left Ocular	Right Ocular
01	Test Value	1	-0.01	0.00	0.00	0.00
02			0.01	-0.01	0.00	0.00
03			-0.01	0.00	0.00	0.00

Sample	Requirement	Optical Class	Difference In Prismatic Power		
			Horizontal		Vertical cm/m
			Base Out cm/m	Base In cm/m	
		1	Max. 0.75	Max. 0.25	Max. 0.25
01	Test Value	1	0.05	--	0.00
02			0.05	--	0.00
03			0.10	--	0.00

--- See Next Page ---

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 4 of 9

Test Result

Clause

7.1.2.2 Transmittance

7.1.2.2.1 Oculars without filtering action

Result

Pass

Finding

Sample	Requirement	Test Value (%)	
		Left Ocular	Right Ocular
04	Luminous Transmittance > 74.4 %	89.14	89.71
05		89.41	89.00
06		88.63	89.22

7.1.2.3 Diffusion of light

Pass

Finding

Sample	Requirement	Test Value [(cd/m ²)/lx]
04L	Reduced Luminance Factor ≤ 0.50 [(cd/m ²)/lx]	0.20
05R		0.23
06L		0.20

--- See Next Page ---

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 5 of 9

Test Result

Clause

7.1.3 Quality of material and surface

Result

Pass

Finding

Samples 01 to 03 were assessed. The samples were free from bubbles, scratches, inclusions, dull spots, pitting, mould marks, notches, reinforced points, specks, beads, water specks, pocking, gas inclusions, splintering, cracks, polishing defects or undulations.

7.1.4.2 Increased robustness

7.1.4.2.2 Complete eye-protectors and frames

Excluded

7.1.5 Resistance to ageing

7.1.5.1 Stability at an elevated temperature

Pass

Finding

Samples 01 to 03 were assessed. The samples tested showed no apparent deformation.

7.1.5.2 Resistance to ultraviolet radiation (oculars only)

Pass

Finding

Sample	Requirement		Test Value (%)
	Luminous Transmittance	Permissible Relative Change	
04L	17.8 % ~ 100 %	± 5 %	-0.83
05R			-0.60
06L			0.21

Finding

Sample	Requirement	Test Value [(cd/m ²)/lx]
04L	Reduced Luminance Factor ≤ 0.50 [(cd/m ²)/lx]	0.07
05R		0.12
06L		0.21

--- See Next Page ---

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 6 of 9

Test Result

Clause

7.1.6 Resistance to corrosion

Note. There's no metal part of the sample.

Result

N/A

7.1.7 Resistance to ignition

Pass

Finding

Samples 10 to 12 were assessed. For each of the samples tested, no part of the eye-protectors ignites or continues to glow after removal of the steel rod.

7.2.4 Protection Against Droplets and Splashes of Liquids(3)

Eye-protectors for use against droplets (goggles) and splashes of liquids (face-shields) shall be tested in accordance with the methods specified in clause 12 of EN 168:2001.

Pass

9. Marking

No Claim

10. Information supplied by the manufacturer

--- See Next Page ---

No provided

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 7 of 9

Test Method & Result

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

Clause

7.3 Impact resistance of the filter, strength level 1

Result

Pass

See Finding

Finding

None of the following defects occurred:

- a) it cracks through its entire thickness and across a complete diameter into two or more separate pieces, or
- b) a person with a visual acuity of at least 1,0 (6/6 or 20/20) can see, when viewing without magnification but wearing the appropriate correction, if any, for near vision, either a piece of material that has become detached from the filter surface or a corresponding surface defect, or
- c) the test ball passes through the filter. This requirement also applies to the filter portions

- Remark:**
1. Samples were provided by applicant and samples were randomly selected to be assessed.
 2. Only applicable clauses were shown.
 3. N/E = Not Evaluated
 4. N/A = Not Applicable
 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 ---

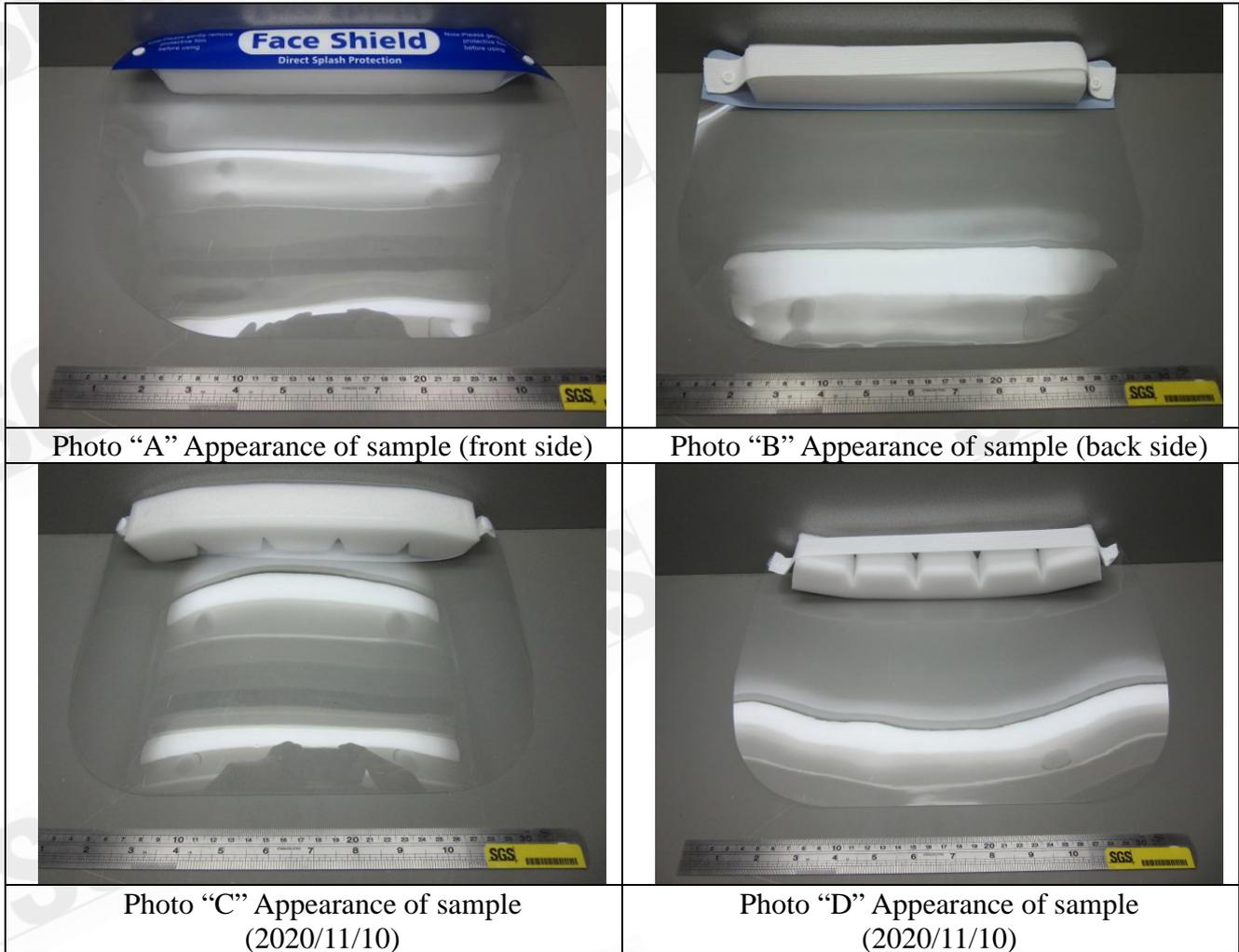
TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 8 of 9

– Picture(s) –



--- See Next Page ---

TEST REPORT

Hardline Laboratory

Report No. : YA90043C/2020

Page : 9 of 9

Annex

Estimates of the uncertainty of measurement at a confidence level of 95 %

Clause		Uncertainty	Unit
6.3	Headbands	0.4 (Max.)	mm
7.1.2.1	Spherical and astigmatic refractive power	0.01 (Max.)	D
	Prismatic refractive power difference	0.01 (Max.)	cm/m
7.1.2.2.1	Transmittance values (%)	0.70	%
7.1.2.2.2			
7.1.2.2.3		from 17.8 to 0.44	
7.1.5.2		0.25	
7.2.1			
7.1.2.3	Diffusion of light	0.0251	[(cd/m ²)/lx]
7.3.1			
7.1.2.4	Polarizing filters	0.1 (Max.)	degree

Remark: Values expressed as a percentage (%) are relative.

--- End of Report ---