

TEST REPORT

Hardline Laboratory

Report No. : YA40065/2020

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Date : APR. 28, 2020

FUTUREYE COMPANY

No. 87, Lane 523, Sec. 3, Zhongzheng Rd., Rende Dist.,
Tainan City 71756, Taiwan, R.O.C.

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

Product Description: Face Shield
Manufacturer/Vendor: YI MENG SHING SPECTACLES IND.
Country of Origin: TAIWAN

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

Test Requested: EN 166:2001 / BS EN 166:2002 Personal eye-protection – Specifications
Personal eye-protection – Specifications
Clause 6.1 General construction
Clause 6.3 Headbands
Clause 7.1.1 Field of vision
Clause 7.1.2 Optical requirements
Clause 7.1.3 Quality of material and surface
Clause 7.1.5.1 Stability at an elevated temperature
Clause 7.1.7 Resistance to ignition
Clause 7.2.4 Protection Against Droplets and Splashes of Liquids

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

Date of Receipt: APR. 14, 2020

Testing Period: APR. 14 ~ 28, 2020

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

Signed for and on behalf of
SGS Taiwan Ltd.

Owen Cheng
Owen Cheng
Manager



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Test Method & Result

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.

6.3 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.

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Test Result

Clause

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

Result

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 | -0.02 | -0.02 | 0.00 | 0.00 |
| 02 | | | -0.02 | -0.02 | 0.00 | 0.00 |
| 03 | | | -0.02 | -0.02 | 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 | 0.15 | -- | 0.00 |
| 02 | | | 0.15 | -- | 0.00 |
| 03 | | | 0.15 | -- | 0.00 |

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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 % | 86.85 | 86.68 |
| 05 | | 86.46 | 87.39 |
| 06 | | 86.58 | 86.96 |

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] | 0.32 |
| 05R | | 0.32 |
| 06L | | 0.36 |

7.1.3 Quality of material and surface

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.

7.1.5 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.

7.1.7 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.

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Test Result

Clause

7.2.4 Protection Against Droplets and Splashes of Liquids

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.

Result
Pass

- Remark:**
1. Samples were provided by applicant and samples were randomly selected to be assessed.
 2. The content of this report is invalid if it is not presented as the entire report.
 3. The statement of conformity is based on the test results, but does not include the measurement uncertainty.

– Picture(s) –

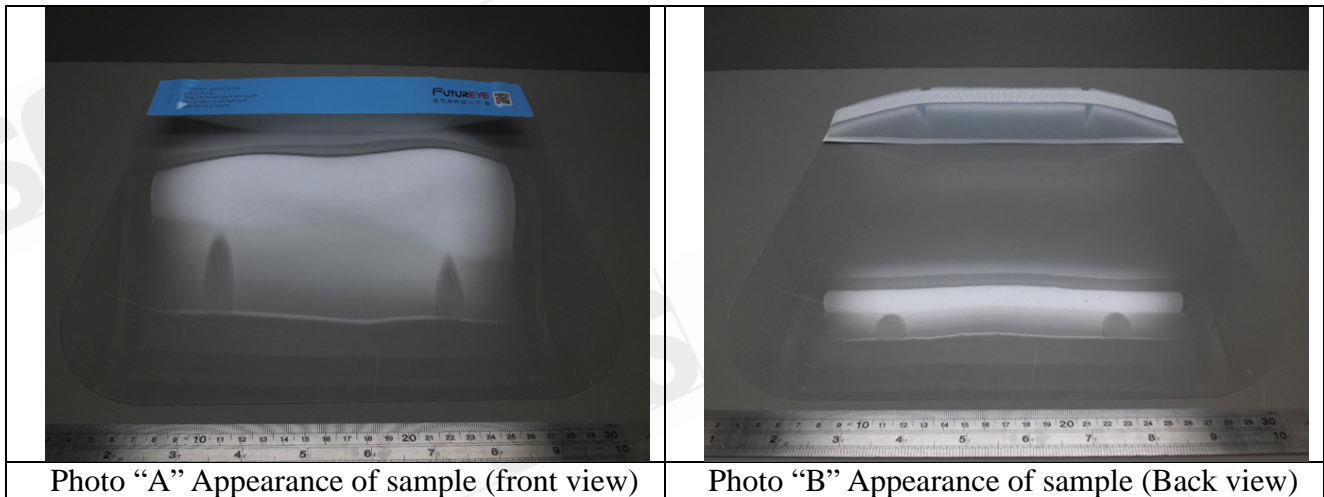


Photo "A" Appearance of sample (front view)

Photo "B" Appearance of sample (Back view)

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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 (%) | from 100 to 17.8 | % |
| 7.1.2.2.2 | | | |
| 7.1.2.2.3 | | | |
| 7.1.5.2 | 7.2.1 | from 17.8 to 0.44 | 0.25 |
| 7.1.2.3 | | Diffusion of light | 0.0251 |
| 7.3.1 | | | |
| 7.1.2.4 | Polarizing filters | 0.1 (Max.) | degree |

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

--- End of Report ---