



Test Report

Number: GZHH00170199S1

Date: Apr 08, 2015

This is to supersede Report No. GZHH00170199 dated Apr 03, 2015

Sample Description:

Six (6) pieces of submitted sample said to be :
Item Name : **glasses**
Item No. :
Country of Origin : China

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

| <u>Tested sample</u> | <u>Requirement</u> | <u>Result</u> |
|----------------------|--|---------------|
| Submitted samples | BS EN 166: 2002 Personal eye-protection - Specifications: - Clause 7.1.2.1 - Optical requirements - Clause 7.1.2.2 - Transmittance - Clause 7.1.4 - Robustness - Clause 7.1.7 - Resistance to ignition | Pass |

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines

Ben N.L. Lin
General Manager



Tests Conducted

1 Requirements for Eye-Protectors

Test standard: BS EN 166: 2002 Personal eye-protection - Specifications

Number of samples tested: Sixteen (16) pairs of eye-protectors.

| Clause | Requirement | Result |
|-----------|---|--------|
| 7.1.2 | Optical requirements | |
| 7.1.2.1 | Spherical, astigmatic and prismatic refractive powers | P |
| 7.1.2.2 | Transmittance | |
| 7.1.2.2.1 | Oculars without filtering action | NA |
| 7.1.2.2.2 | Oculars with filtering action (filters) and housings for oculars with filtering action | P |
| 7.1.2.2.3 | Variations in transmittance (Oculars without filtering action are exempt from this requirement) | P |
| 7.1.4 | Robustness | |
| 7.1.4.1 | Minimum robustness | P |
| 7.1.4.2 | Increased robustness | P |
| 7.1.7 | Resistance to ignition | P |

Abbreviation: P = Pass; NA = Not Applicable

Test data:

7.1.2.1 Spherical, astigmatic and prismatic refractive powers

| Optical power | Left ocular | Right ocular | Limit | Optical class |
|-------------------------------------|-------------|--------------|--------|---------------|
| Spherical power (m ⁻¹) | -0.04 | -0.02 | ± 0.06 | 1 |
| Astigmatic power (m ⁻¹) | 0 | 0.01 | ≤ 0.06 | |

| Prismatic power difference (cm/m) | | | Limit (cm/m) | Optical class |
|-----------------------------------|----------|------|--------------|---------------|
| Horizontal | Base out | 0.14 | ≤ 0.75 | 1 |
| | Base in | --- | ≤ 0.25 | |
| Vertical | | 0 | ≤ 0.25 | |

7.1.2.2.2 Oculars with filtering action (filters) and housings for oculars with filtering action

| Range | Left ocular (%) | Right ocular (%) |
|-------------------------------|-----------------|------------------|
| 380 - 780nm (T _V) | 25.60 | 26.72 |

| Range | Maximum transmittance (%) | |
|----------------------------------|---------------------------|--------------|
| | Left ocular | Right ocular |
| 280-315nm (T _{SUVB}) | 0.01 | 0.01 |
| 315 - 380nm (T _{SUVA}) | 0.02 | 0.02 |





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7.1.2.2.3 Variations in transmittance (Oculars without filtering action are exempt from this requirement)

| Variations in transmittance | Value (%) | Limit (%) |
|-----------------------------|-----------|-----------|
| P ₁ | 1.80 | ≤ 5 |
| P ₂ | 4.82 | ≤ 5 |
| P ₃ | 4.18 | ≤ 20 |

Date sample received : Mar 16, 2015
Testing period : Mar 16, 2015 to Mar 24, 2015

End of report

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