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# TEST REPORT

Report No.: WT2025E09A00190E

Entrusted by: Dongguan Qunan Plastic Industrial Co., Ltd.

Sample Name: 1.14mm SGP High Transmittance Ionoplast Interlayer

Test Type: Entrustment Test

China Testing & Certification International Group Co., Ltd.

China National Safety Glass & Quartz Glass Test Center

WT2025E09A00190

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# China Testing & Certification International Group Co., Ltd.
# China National Safety Glass & Quartz Glass Test Center
# Test Report

**Report No.: WT2025E09A00190E** 

| | | | |
|---|---|---|---|
| **Sample Name** | 1.14mm SGP High transmittance ionoplast interlayer | **Test Type** | Entrustment Test |
| **Entrusted by** | Dongguan Qunan Plastic Industrial Co., Ltd. | **Trademark** | —— |
| **Manufacturer** | Dongguan Qunan Plastic Industrial Co., Ltd. | **Sample Status** | Meet the requirements of testing |
| **Reception Date** | March 4, 2025 | **Sample Quantity** | 22 pieces |
| **Production Date/ Batch No.** | —— | **Model/Size** | Shown on each data sheet |
| **Test Method** | Shown on each data sheet | **Test Date** | March 11, 2025 – April 2, 2025 |
| **Criterion** | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass* | | |
| **Test Item** | Thermal shrinkage, Light transmittance, Bump test, Haze, UV transmittance, Yellowness index, Tearing strength, Tensile stress at break & nominal tensile strain at break | | |
| **Conclusion** | *The test results conform to the requirements of JC/T 2763-2023. The test results are shown on Page 2-9.*<br>**Date of issue:** 2025-04-10<br>**(Seal)** | | |
| **Remark:** (Blank) | | | |

**Approved by:** 王睿 **Checked by:** 丁仕鑫 **Compiled by:** 许威

Laboratory address: No.1 Guanzhuang Dongli, Chaoyang District, Beijing, 100024, P.R. China
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| Test Item | Thermal shrinkage | |
|---|---|---|
| Test Method | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass*, Section 6.4 | |
| Requirement of Criterion | The requirement of JC/T 2763-2023:<br>Thermal shrinkage at lengthwise direction≤3% | |
| **Test Result** | | |
| Sample No. | Thermal shrinkage /% | Average /% |
| 1 | 2.0 | 1.8 |
| 2 | 1.5 | |
| 3 | 2.0 | |
| Item Conclusion | Pass | |
| Remark | 1. Test address: Guanzhuang;<br>2. Main test equipment: Q-43 DHG-9053A Electrothermal blowing dry box, J-52-1 150mm Straight steel ruler;<br>3. Sample size: 150mm×120mm×1.14mm. | |



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| Test Item | Light transmittance |
|---|---|
| Test Method | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass*, Section 6.9, GB/T 2680-2021 *Glass in building——Determination of light transmittance, solar direct transmittance, total solar energy transmittance，ultraviolet transmittance and related glazing factors* |
| Requirement of Criterion | The requirement of JC/T 2763-2023:<br>Light transmittance ≥87% |
| **Test Result** | |
| **Sample No.** | **Light transmittance/%** |
| 4 | 90.6 |
| 5 | 90.6 |
| 6 | 90.5 |
| **Item Conclusion** | **Pass** |
| **Remark** | 1. Test location: Guanzhuang ;<br>2. Main test equipment: S-45 Lambda950 UV/VIS Spectrometer;<br>3. Sample size:100mm × 100mm × (6mm ultra-clear glass+1.14mm interlayer +6mm ultra-clear glass). |



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| Test Item | Bump test |
|---|---|
| Test Method | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass*, Section 6.5 |
| Requirement of Criterion | The requirement of JC/T 2763-2023:<br>Bump value≥6 |

**Test Result**

| Sample No. | Bump value |
|---|---|
| 7 | 8 |
| 8 | 8 |
| 9 | 9 |
| Item Conclusion | Pass |
| Remark | 1. Test address: Guanzhuang;<br>2. Main test equipment: J-80 QJC-1 Knocking hammer;<br>3. Sample size: 300mm×76mm×[5mm clear glass (tin side) +1.14mm interlayer + (tin side)5mm clear glass]. |

| Test Item | Haze |
|---|---|
| Test Method | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass*, Section 6.10, GB/T 2410-2008 *Determination of the luminous transmittance and haze of transparent plastics* |
| Requirement of Criterion | The requirement of JC/T 2763-2023: |

| Thickness of interlayer /mm | Haze/% |
|---|---|
| 0.76 or 0.89 | ≤0.6 |
| 1.14 or 1.52 | ≤1.2 |
| 2.28 | ≤1.8 |

**Test Result**

| Sample No. | Haze/% |
|---|---|
| 20 | 0.22 |
| 21 | 0.25 |
| 22 | 0.22 |
| Item Conclusion | Pass |
| Remark | 1. Test location: Guanzhuang ;<br>2. Main test equipment: Q-07 SGH-2 Haze meter;<br>3. Sample size:100mm×100mm×(6mm ultra-clear glass+1.14mm interlayer +6mm ultra-clear glass).<br>4. Procedure A: Hazemeter, Illuminant A. |

| Test Item | UV transmittance |
|---|---|
| Test Method | JC/T 2763-2023 Ionoplast interlayer used for laminated glass, Section 6.8, GB/T 2680-2021 *Glass in building——Determination of light transmittance, solar direct transmittance, total solar energy transmittance，ultraviolet transmittance and related glazing factors* |
| Requirement of Criterion | The requirement of JC/T 2763-2023:<br>UV transmittance≤10%. |

**Test Result**

| Sample No. | UV transmittance /% |
|---|---|
| 4 | 0.6 |
| 5 | 0.7 |
| 6 | 0.6 |
| Item Conclusion | Pass |
| Remark | 1. Test address: Guanzhuang ;<br>2. Main test equipment: S-45 Lambda950 UV/VIS Spectrometer;<br>3. Sample size:100mm × 100mm × (6mm ultra-clear glass+1.14mm interlayer +6mm ultra-clear glass). |



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| Test Item | Tensile stress at break & nominal tensile strain at break | |
|---|---|---|
| Test Method | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass*, Section 6.12,<br>GB/T 1040.1-2018 *Plastics-Determination of tensile properties — Part 1: General principles*<br>GB/T 1040.3-2006 *Plastics-Determination of tensile properties — Part 3: Test conditions for films and sheets* | |
| Requirement of Criterion | The requirement of JC/T 2763-2023:<br><br>Tensile stress at break≥32MPa,<br>Nominal tensile strain at break≥230%. | |
| **Test Result** | | |
| **Sample No.** | **Average of tensile stress at break /MPa** | **Average of nominal tensile strain at break /%** |
| 10~14 | 36.0 | 267.3 |
| **Item Conclusion** | **Pass** | |
| **Remark** | 1. Test address: Guanzhuang ;<br>2. Main test equipment: J-112 ETM504C Electromechanical universal testing machine, J-112-2 500N Mechanical sensor, J-52-1 150mm Straight steel ruler, J-54-1 25mm Digital display micrometer;<br>3. Sample size: Type 5 sample (1.14mm). | |

| Test Item | Yellowness index | | |
|---|---|---|---|
| Test Method | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass*, Section 6.7,<br>HG/T 3862-2006(2017) *Plastics—Test method of Yellowness index* | | |
| Requirement of Criterion | **The requirement of JC/T 2763-2023:**<br>Yellowness index≤2. | | |
| **Test Result** | | | |
| **Sample No.** | **Yellowness index** | **Average** | **Standard deviation** |
| 4 | -0.1 | -0.1 | 0.1 |
| 5 | -0.1 | | |
| 6 | -0.1 | | |
| Item Conclusion | **Pass** | | |
| Remark | 1. Test address: Guanzhuang ;<br>2. Main test equipment: S-45 Lambda950 UV/VIS Spectrometer;<br>3. Sample size:100mm × 100mm × (6mm ultra-clear glass+1.14mm interlayer +6mm ultra-clear glass). | | |

| Test Item | Tear strength |
|---|---|
| Test Method | JC/T 2763-2023 *Ionoplast interlayer used for laminated glass*, Section 6.13,<br>GB/T 529-2008 *Rubber, vulcanized or thermoplastic — Determination of tear strength (Trouser, angle and crescent test pieces* |
| Requirement of Criterion | The requirement of JC/T 2763-2023:<br>Tear strength ≥120kN/m |
| **Test Result** | |
| Sample No. | Average of tear strength/（kN/m） |
| 15~19 | 120.9 |
| Item Conclusion | Pass |
| Remark | 1. Test address: Guanzhuang;<br>2.Main test equipment: J-112 ETM504C Electromechanical universal testing machine, J-112-2 500N Mechanical sensor, J-54-1 25mm Digital caliper (display);<br>3. Sample size: Unnicked angle sample , thickness 1.14mm. |

End of the report



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