

Industrial Glass Optical & Mechanical Performance Test Report

Felix Glass Brand Intro & Document ID

Felix Glass specializes in custom precision optical components for machine vision, laser systems, medical optics, spectroscopy and industrial imaging. OEM & ODM manufacturing services are available worldwide. Document No. : FG-CUSL-001 | Rev. 1.0 | Issue Date:2026

Test Equipment

Coordinate measuring machine, flatness interferometer, UV-Vis-NIR spectrometer, thermal shock environmental chamber, drop impact tester, coating scratch resistance tester, high-temperature furnace

Full Test Parameters

- Dimensional tolerance for tubes, plates, flat panels, curved and 3D glass
- Surface flatness, contour forming accuracy & optical distortion rate
- Spectral transmittance of quartz glass across UV-visible spectrum
- Mechanical strength: chemical temper impact resistance, Mohs hardness
- Thermal stability: quartz high-temperature endurance, curved glass forming residual stress
- Coating performance: AR transmittance, AG haze value, AF water/oil repellent durability

Batch Test Summary

- Quartz Tubes & Plates: Zero deformation under 1100°C working temperature, high UV transmittance for semiconductor UV process equipment
- Custom Flat Glass Panels: Ultra-low flatness error, strong anti-drop tempered surface for industrial touch displays
- Curved Glass: Uniform arc without light distortion, stable surface coating for automotive center control screens
- 3D Hot Bent Glass: Precise complex contour consistency, suitable for high-end consumer electronics curved optical covers

Test Conclusion

All industrial glass components pass full mechanical and optical performance testing; complete batch test data reports can be provided for customer factory audit and third-party certification review.

The information contained in this document is provided for reference only. Final specifications are subject to mutually approved engineering drawings, production capability review, and customer project requirements.

Hong Kong Felix Glass Co., Limited Custom Optical Components Manufacturer www.felixglass.com | sales@felixglass.com