

ITO Conductive Glass Datasheet

Document No. : FG-ITO-001 | Rev.1.0 | 2026 Felix Glass provides custom coated and precision machined ITO conductive glass substrates for optoelectronic, display, laboratory and semiconductor industrial systems. Custom OEM & ODM processing and coating services are available.

Typical Manufacturing Capability

- **Base Material Options:** Fused silica, borosilicate glass, soda lime float glass, H-K9L optical glass
- **Dimension Range** Minimum size: 10 mm × 10 mm Maximum size: 1200 mm × 1500 mm
- **Thickness Range:** 0.5 mm – 20 mm
- **Edge Finish:** Ground edge / Fire-polished optical edge / CNC chamfer
- **Dimensional Tolerance:** Defined per customer engineering drawings
- **Coating Options:** Low sheet resistance variants, high transmittance variants, single-sided / double-sided ITO coating (available upon request)
- **Secondary Machining:** Laser scribing, drilling, contour cutting, edge chamfering

Core Specification - Typical Grade Classification

- **Fused Silica ITO Glass** Suitable for selected UV-visible applications depending on coating design.
- **Optical-grade H-K9L ITO Substrate** For precision optical detection and laboratory spectroscopy systems.
- **Borosilicate ITO Glass** Offers improved thermal shock resistance compared with standard soda-lime glass.
- **Float Glass ITO Panel** Industrial display-grade transparent electrode substrate.

Performance Notes

- **Electrical performance:** Low sheet resistance variants provide stable conductivity for electrode and test fixture applications.
- **Optical performance:** High-transmittance coating grades prioritize light transmission for optical measurement systems.
- **Thermal performance:** Service conditions depend on base material, ITO film structure and operating environment.

Application Classification

Primary Core Applications

- Industrial touch screen and display transparent electrodes
- Laboratory photoelectric detection and spectroscopic measurement systems

Secondary Industrial Applications

- Semiconductor electrical test fixtures and wafer inspection platforms
- Machine vision optical sensor protective windows
- Optoelectronic component testing and research substrates

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.

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