

Quartz Glass Plates Datasheet

Document No. : FG-QTZ-PL-001 | Rev.1.0 | 2026 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 globally.

Typical Manufacturing Capability

- Base Material: High-purity fused silica quartz
- Length & Width Range: 10 mm – 1000 mm
- Thickness Range: 0.5 mm – 25 mm
- Edge Finish: Ground edge / Fire-polished edge / CNC chamfered edge
- Dimensional Tolerance: Defined per customer drawing
- Surface Treatment: Optical polishing / AR coating / AG coating (available upon request)
- Secondary Machining: Drilling, counterbore, notching, custom contour cutting

Core Specification - Typical Classification

Material Grade Classification

- UV transparent fused silica plate
- Industrial standard quartz sheet
- Optical-grade quartz window plate

Thermal Performance Note

Service temperature depends on quartz grade, installation method and actual operating conditions.

Optical Performance Note

UV transparent grades are specified for applications requiring consistent transmittance across UV to visible spectrum.

Grade Technical Differentiation

- UV Transparent Quartz Plate: Suitable for photochemical systems, UV curing and microscopic optical analysis
- Industrial Quartz Sheet: Suitable for high-temperature furnace observation and thermal isolation scenarios
- Optical-grade Quartz Window Plate: Applied for precision machine vision inspection and sensor protective optical assemblies

Application Classification

Primary Core Applications

- Semiconductor wafer thermal diffusion equipment
- Industrial UV curing and photochemical reaction systems

Secondary Industrial Applications

- Laboratory spectroscopic analysis vessels

- Machine vision optical inspection windows
- High-temperature industrial furnace viewing panels
- Optical sensor protective cover 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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