

SCHOTT Robax® - Transparent Ceramic Glass

Glass Fabrication



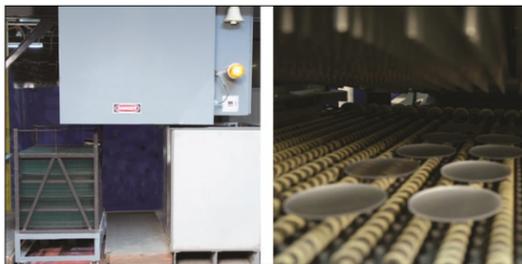
Coating Deposition



CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



Abrisa Technologies, a member of HEF Photonics, is a globally recognized technology glass fabrication and optical thin film coating company with expertise in high volume manufacturing and engineering capabilities, delivering Total Solutions that provide excellent performance, fitness-for-use and economies of scale.

Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA and ZC&R Coatings for Optics in Torrance CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science and more.



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Your Total Solution Partner

SCHOTT Robax® - Transparent Ceramic Glass

SCHOTT Robax® is a transparent ceramic glass that is extremely heat resistant. The combination of good optical transmission (including infrared, which we perceive as heat) and low thermal expansion make Robax® an excellent choice for windows in heating devices. Robax® also has good UV blocking characteristics. The most common uses are fireplaces, stoves, and other types of heating systems.

Features:

- High Resistance to Heat (Up to 700°)
- Good Transmission
- Excellent Resistance to Thermal Shock
- Blocks UV

Applications:

- Windows, In-room Heaters & Stoves
- Cover Panels for Heating Radiators
- UV Blocking Shields
- Cover Panels for High Powered Flood Lights
- Cover Panels for IR Drying Appliances

Dimensions:

- Thicknesses: 3mm & 5mm
- Sheet Sizes: 77 x 43" (1955.8 x 1092.2mm)

Thermal Expansion:

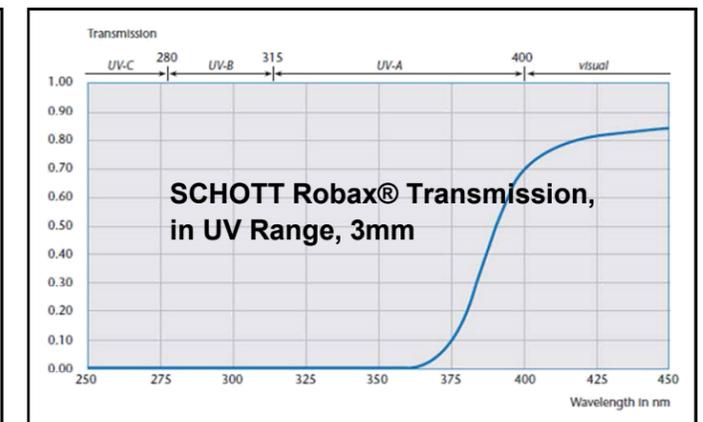
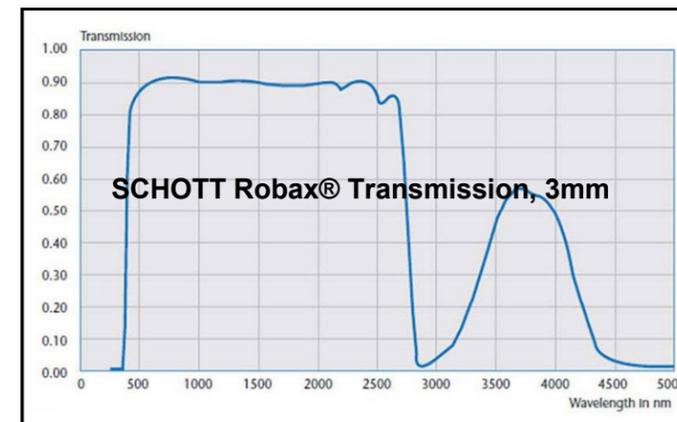
- 20-700°C (66-292°F): (0 +/- 0.5) x 10⁻⁶/K

Mechanical Properties:

Density (25°C) ρ	2.58 g/cm ³	161.1 lb/ft ³
Young's Modulus E	92 Gpa	13 Mpsi
Poisson's Ratio μ	0.25	0.25

Max. Operating Temperatures:

Usage Temp	Usage Time
560°C	5000 Hours
610°C	1000 Hours
660°C	100 Hours
710°C	10 Hours
760°C	5 Hours



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