Ceramic/Glass
SCHOTT Robax® Transparent Ceramic

Description:
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°C)
- Good transmission
- Excellent resistance to thermal shock
- Blocks UV

Applications:
- Windows in room heaters and stoves
- Cover panels for heating radiators
- UV blocking shields
- Cover panels for high powered flood lights
- Cover panels for IR drying appliances

Physical Properties:

Mechanical:
- Density (25°C) \( \rho \) 2.58 g/cm³ 161.1 lb/ft³
- Young’s Modulus \( \varepsilon \) 92 Gpa 13 Mpsi
- Poisson’s Ratio \( \mu \) 0.25 0.25

Thermal Expansion:
- 20 – 700°C (68 – 1292°F) \((0 +/- 0.5) \times 10^{-6}/K\)

Maximum 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

Dimensions:
- Thicknesses: 3mm – 5mm
- Sizes: Up to 62” x 33” (1574.8 x 838.2”)

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