

Corning[®] 7980 Fused Silica

Corning[®] 7980 is a very pure, non-crystalline silica glass. It features very low thermal expansion and excellent optical qualities, including very high transmission in the UV spectrum.

Features:

- Excellent Optical Properties
- Low Thermal Expansion
- High UV Transmission

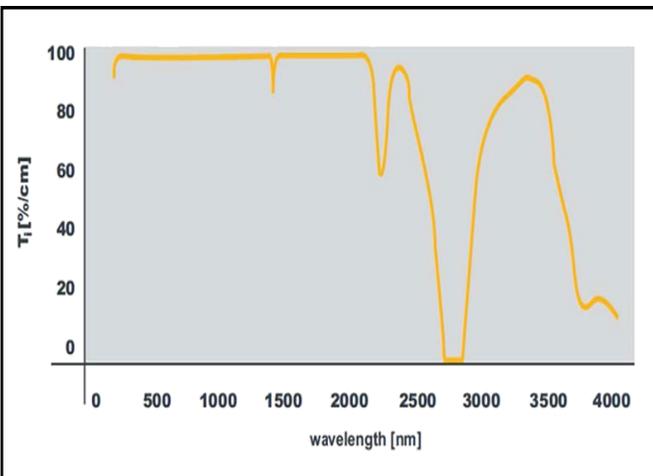
Applications:

- Optical Windows
- High Temperature View Ports

Dimensions:

- Thicknesses: 1.6mm
- Sizes: Up to 6.5" x 6.5" (161.5 x 161.5mm)

Transmission:



Physical Properties:

Index of Refraction @ 589.3nm	1.45840	
Thermal Expansion 0 - 200°C (32 - 92°F)	5.7 x 10 ⁻⁷ /°C	
Electrical Properties		
Log10 Volume Resistivity (25°C, 482°F)	11.8 ohm*cm	
Density (25°C) ρ	2.201 g/cm ³	137.4 lb/ft ³
Young's Modulus E	72.7 GPa	10.5 Mpsi
Poisson's Ratio μ	0.16	0.16
Knoop Hardness HK _{0.1/20}	522 kg/mm ²	
Shear Modulus	31.4 GPa	4.55 Mpsi
Softening Point (10 ^{7.6} poises)	1585°C	2885°F
Annealing Point	1042°C	1908°F
Strain Point (10 ^{14.5} poises)	893°C	1639°F

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Glass Fabrication



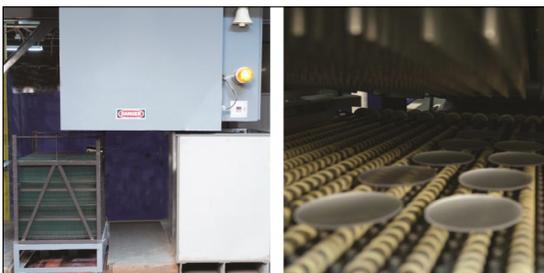
Coating Deposition



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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