

TECHNICAL DATA SHEET



SPI Supplies
206 Garfield Avenue,
West Chester, PA 19380, USA

SPI Supplies® Corning® 7980 Fused Silica Slides

Technical Details for 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.

Physical Properties:

Mechanical:

• Density (25°C)	2.201 g/cm	3137.4 lb/ft ³
• Young's Modulus E	72.7 GPa	10.5 Mpsi
• Poisson's Ratio μ	0.16	0.16
• Knoop Hardness HK	522 kg/mm ²	
• Shear Modulus	31.4 GPa	4.55 Mpsi

Thermal:

• Softening Point (107.6 poises)	1585 °C	2885 °F
• Annealing Point (1013 poises)	1042 °C	1908 °F
• Strain Point (1014.5 poises)	893 °C	1639 °F

Thermal Expansion: 0 – 200 °C (32 – 392 °F) 5.7 x 10⁻⁷/°C

Optical:

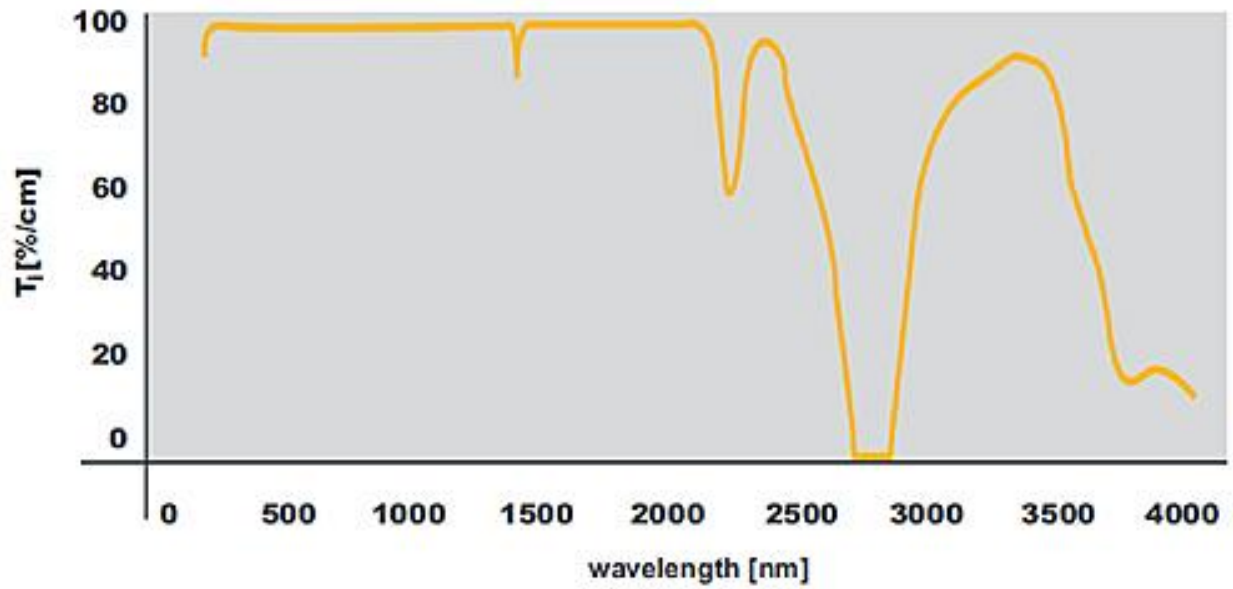
Index of Refraction @ 589.3nm 1.45840

Electrical:

Resistivity: (250°C, 482°F)

6.31×10^{10} ohm - cm

Transmittance Curve:



EER
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