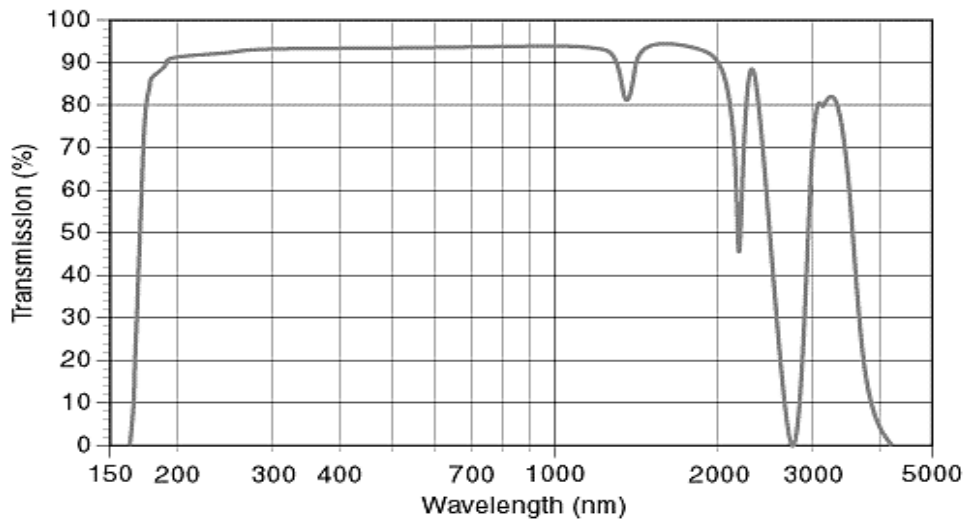


PROPERTIES OF FUSED SILICA (at approx. 20 °C)

	Units	Value
General		
Chemical Formula		SiO ₂
Optical		
Index of refraction (at 589.3nm)		1.458
Mechanical		
Density	g/cm ³	2.203
Compressive Strength	kg/cm ²	1.13 x 10 ⁴
Young Modulus	kg/cm ²	7.45 x 10 ⁶
Flexural Strength	kg/cm ²	680
Tensile Strength	kg/cm ²	500
Poisson's Ratio		0.17
Hardness	mohs	5.5-6.5
Electrical		
Dielectric Strength	kv/cm	250-400 @ 20°C 150-200 @ 500°C
Dielectric Constant (0-1Mhz)	0-1Mhz	3.70
Volume Resistivity	Ω/cm	1 x 10 ¹⁸
Thermal		
Maximum Temperature (continous)	°C	950/1000
Softening Point	°C	1600
Coefficient of Expansion (0°-300°C)	cm°C	5.9 x 10 ⁻⁷
Conductivity	cal•cm	0.0033
Specific Heat (0°-100°C)	cal/g°C	0.18

TRANSMISSION OF FUSED SILICA



This is data is representative based on composite data from several sources and is not meant to be absolute.