

## GE 124/214 Quartz

Glass Type: Fused Quartz

### Description

Fused Quartz Is a result of melting crystalline silica in the form of stone, sand or rock. It is sometimes used in the same applications as Fused Silica. The main differences are that Fused Quartz has a much lower OH content and Fused Silica transmits better in the UV. Both are highly pure, have high chemical resistance, good thermal shock resistance, and low thermal expansion coefficient. SGP can CNC mill, cut, drill, lap, and polish GE124 into any dimension or surface finish.

Thermal Properties		Mechanical Properties	
Thermal Coefficient of Expansion	(0/300°C): 5.5X10 -7/°C	Density	2.21 g/cm3
Annealing Point	1213.83°C/2216.9 °F	Knoop Hardness	>600 Kg/m m2
Softening Point	1683°C / 3061 °F	Young's Modulus	10.5X106 PSI (70 Gpa)
Strain Point	1122°C/2051.6 °F	Poisson's Ratio	.17

Chemical Properties		Electrical Properties	
Hydrolytic Resistance	N/A	Dielectric Constant	3.75 @ 20°C, 1 MHz
Acid Resistance	N/A	Resistivity	7 X 107 ohm * cm (350°C)
Alkali Resistance	N/A	Dielectric Strength	1270 volts/mil

Optical Properties	
Refractive Index	1.4585

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