

Corning Vycor® 7950 Red Glass

Category : Ceramic , Glass , Optical , Oxide , Silicon Oxide

Material Notes:

Used to reduce the light of quartz lamps (blocks most visible white light while transmitting IR). One specific use is blocking glare from heating units. Special Features: Superior optical quality Tight dimensional control Thermal and chemical properties ideally suited to high temperatures. Excellent thermal shock resistance Information provided by Corning Incorporated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Corning-Vycor-7950-Red-Glass.php

Physical Properties	Metric	English	Comments
Density	2.18 g/cc	0.0788 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	487	487	KHN¹⁰⁰
Modulus of Elasticity	66.2 GPa	9600 ksi	
Poissons Ratio	0.19	0.19	
Shear Modulus	28.0 GPa	4060 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	0.750 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	0.417 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 0.000 - 300 $^{\circ}\text{C}$	@Temperature 32.0 - 572 $^{\circ}\text{F}$	
Specific Heat Capacity	0.750 J/g- $^{\circ}\text{C}$	0.179 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	1.38 W/m-K	9.57 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	900 $^{\circ}\text{C}$	1650 $^{\circ}\text{F}$	Continuous
Softening Point	1530 $^{\circ}\text{C}$	2790 $^{\circ}\text{F}$	10^{7.6} Poise
Annealing Point	1020 $^{\circ}\text{C}$	1870 $^{\circ}\text{F}$	10¹³ Poise
Strain Point	890 $^{\circ}\text{C}$	1630 $^{\circ}\text{F}$	10¹⁴ Poise

Optical Properties	Metric	English	Comments
IR Transmittance	60 %	60 %	
	@Wavelength 800 nm	@Wavelength 800 nm	
	65 %	65 %	

Optical Properties	@Wavelength 1500 nm Metric	@Wavelength 1500 nm English	Comments
Component Elements Properties	Metric	English	Comments
SiO2	96 %	96 %	
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+8 ohm-cm @Temperature 350 °C	1.30e+8 ohm-cm @Temperature 662 °F	
	5.00e+9 ohm-cm @Temperature 250 °C	5.00e+9 ohm-cm @Temperature 482 °F	
Dielectric Constant	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	
Dissipation Factor	0.00040 @Frequency 1e+6 Hz	0.00040 @Frequency 1e+6 Hz	

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