



Product Information: VYCOR® 7913

7/01

Description

Glass Type — 96% Silica
 Color — clear
 Forms available — tubing, rod, sheet, powder
 Principal uses — high temperature & chemically durable vessels, windows and tubing, graded seals, heater tubing

Properties

Mechanical

	Metric	English
Density	2.18 g/cm ³	136.0 lb/ft ³
Young's Modulus	6.75 x 10 ³ kg/mm ²	9.6 x 10 ⁶ psi
Poisson's Ratio	0.19	
Shear Modulus	2.85 x 10 ³ kg/mm ²	4.1 x 10 ⁶ psi
Knoop Hardness (KHN ₁₀₀)	487	

Viscosity

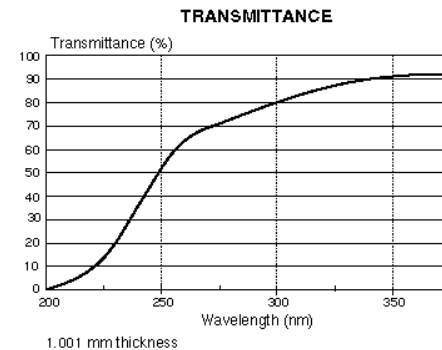
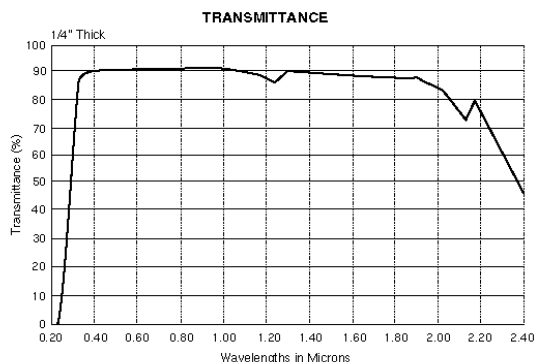
Softening Pt. (10 ^{7.6} poises)	1530°C	2786°F
Annealing Pt. (10 ¹³ poises)	1020°C	1868°F
Strain Pt. (10 ¹⁴ poises)	890°C	1634°F

Thermal

Coefficient of Expansion (0-300°C)	7.5 x 10 ⁻⁷ /°C	4.2 x 10 ⁻⁷ /°F
Specific Heat, 25°C	0.18 cal/g°C	0.18 Btu/lb°F
Thermal Conductivity	0.0033 $\frac{\text{cal cm}}{\text{sec cm}^2\text{C}}$	0.8 $\frac{\text{Btu ft}}{\text{h ft}^2\text{F}}$
Thermal Diffusivity, 25°C	0.0090 $\frac{\text{cm}^2}{\text{sec}}$	0.0349 $\frac{\text{ft}^2}{\text{h}}$
Continuous Operating Temperature	900°C	1652F

Optical

Refractive Index (589.3nm) 1.458
 Birefringence Constant 360 $\frac{\text{nm cm}}{\text{kg/mm}^2}$



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PYREX®

DARK ROBAX®

VYCOR® &
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REFLECTING
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TUBING & ROD

GLASS AS THIN
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