

Schott SF4 Glass

Category : Ceramic , Glass

Material Notes:

Information Provided by SCHOTT North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-SF4-Glass.php

Physical Properties	Metric	English	Comments
Density	4.79 g/cc	0.173 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	390	390	.1/20
Modulus of Elasticity	56.0 GPa	8120 ksi	
Poissons Ratio	0.241	0.241	
Shear Modulus	23.0 GPa	3340 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 $\mu\text{m/m-}^{\circ}\text{C}$	4.44 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature -30.0 - 70.0 $^{\circ}\text{C}$	@Temperature -22.0 - 158 $^{\circ}\text{F}$	
	8.90 $\mu\text{m/m-}^{\circ}\text{C}$	4.94 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Specific Heat Capacity	0.410 J/g- $^{\circ}\text{C}$	0.0980 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.650 W/m-K	4.51 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Transformation Temperature, Tg	420 $^{\circ}\text{C}$	788 $^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.7552	1.7552	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.76167	1.76167	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	86.2 %	86.2 %	

Transmission Visible Optical Properties	Metric @Thickness 10.0 mm, Wavelength 380 nm	English @Thickness 0.394 in, Wavelength 380 nm	Comments
	96.3 %	96.3 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99.2 %	99.2 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.8 %	99.8 %	
	@Thickness 10.0 mm, Wavelength 580 nm	@Thickness 0.394 in, Wavelength 580 nm	
	99.8 %	99.8 %	
	@Thickness 10.0 mm, Wavelength 700 nm	@Thickness 0.394 in, Wavelength 700 nm	
	84.7 %	84.7 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
IR Transmittance	99.6 %	99.6 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
	9.0 %	9.0 %	
	@Thickness 10.0 mm, Wavelength 350 nm	@Thickness 0.394 in, Wavelength 350 nm	
	60.1 %	60.1 %	
UV Transmittance	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	72.7 %	72.7 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	4.3	4.3	
Alkali Class, AR	2.3	2.3	
Stain Resistance Class, FR	2.0	2.0	

Descriptive Properties	Value	Comments
B	1	

Climatic Resistance Test CR Descriptive Properties		Value	Comments
HG		1	
K (10-6mm2/N)		1.36	
Phosphate Resistance PR		3.3	
T1013.0 (Å°C)		415	
T107.6 (Å°C)		552	

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