

Schott SF6 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-SF6-Glass.php

Physical Properties	Metric	English	Comments
Density	5.18 g/cc	0.187 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	370	370	.1/20
Modulus of Elasticity	55.0 GPa	7980 ksi	
Poissons Ratio	0.244	0.244	
Shear Modulus	22.0 GPa	3190 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.10 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.50 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	9.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.389 J/g- $\text{Å}^\circ\text{C}$	0.0930 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.673 W/m-K	4.67 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	423 $\text{Å}^\circ\text{C}$	793 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.80518	1.80518	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.81265	1.81265	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	72 %	72 %	

Transmission Visible Optical Properties	@Thickness 10.0 mm, Metric Wavelength 380 nm	@Thickness 0.394 in, English Wavelength 380 nm	Comments
	93.3 %	93.3 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99.1 %	99.1 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.9 %	99.9 %	
	@Thickness 10.0 mm, Wavelength 580 nm	@Thickness 0.394 in, Wavelength 580 nm	
	99.9 %	99.9 %	
	@Thickness 10.0 mm, Wavelength 700 nm	@Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	88.7 %	88.7 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.6 %	99.6 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	24.6 %	24.6 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	44.2 %	44.2 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	51.3	51.3	
Alkali Class, AR	2.3	2.3	
Stain Resistance Class, FR	3.0	3.0	

Descriptive Properties	Value	Comments
B	0	
Climatic Resistance Test CR	2	
HG	1	

K (10-6mm²/N) Descriptive Properties	0.65 Value	Comments
Phosphate Resistance PR	3.3	
T1013.0 (Å°C)	410	
T107.6 (Å°C)	538	

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