

Schott SF57 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-SF57-Glass.php

Physical Properties	Metric	English	Comments
Density	5.51 g/cc	0.199 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	350	350	.1/20
Modulus of Elasticity	54.0 GPa	7830 ksi	
Poissons Ratio	0.248	0.248	
Shear Modulus	22.0 GPa	3190 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.30 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.61 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	9.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.360 J/g- $\text{Å}^\circ\text{C}$	0.0860 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.620 W/m-K	4.30 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	414 $\text{Å}^\circ\text{C}$	777 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.84666	1.84666	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.85504	1.85504	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	52.3 %	52.3 %	

Transmission Visible Optical Properties	Metric @Thickness 10.0 mm, Wavelength 380 nm	English @Thickness 0.394 in, Wavelength 380 nm	Comments
	88.2 %	88.2 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	98.7 %	98.7 %	
	@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	
	89.1 %	89.1 %	
	@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	
	4.0 %	4.0 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	16 %	16 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	52.3	52.3	
Alkali Class, AR	2.3	2.3	
Stain Resistance Class, FR	5.0	5.0	

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

K (10-6mm2/N) Descriptive Properties	0.02 Value	Comments
Phosphate Resistance PR	4.3	
T1013.0 (Â°C)	391	
T107.6 (Â°C)	519	

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