

Schott N-SF1 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-N-SF1-Glass.php

Physical Properties	Metric	English	Comments
Density	3.03 g/cc	0.109 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	540	540	.1/20
Modulus of Elasticity	90.0 GPa	13100 ksi	
Poissons Ratio	0.25	0.25	
Shear Modulus	36.0 GPa	5220 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	9.10 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.06 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	10.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.83 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.750 J/g- $\text{Å}^\circ\text{C}$	0.179 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	1.00 W/m-K	6.94 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	553 $\text{Å}^\circ\text{C}$	1030 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.71736	1.71736	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.72308	1.72308	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	57.4 %	57.4 %	

Transmission Visible Optical Properties	@Thickness 10.0 mm, Wavelength 380 nm Metric	@Thickness 0.394 in, Wavelength 380 nm English	Comments
	89.6 %	89.6 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	97.6 %	97.6 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.6 %	99.6 %	
	@Thickness 10.0 mm, Wavelength 580 nm	@Thickness 0.394 in, Wavelength 580 nm	
	99.6 %	99.6 %	
	@Thickness 10.0 mm, Wavelength 700 nm	@Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	77.3 %	77.3 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	98.9 %	98.9 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	9.6 %	9.6 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	25.2 %	25.2 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	1.0	1.0	
Alkali Class, AR	1.0	1.0	
Stain Resistance Class, FR	0.00	0.00	

Descriptive Properties	Value	Comments
B	1	
Climatic Resistance Test CR	1	
HG	5	

<small>K (10-6mm²/N)</small> Descriptive Properties	<small>2.72</small> Value	Comments
Phosphate Resistance PR	1	
T1013.0 (Å°C)	554	
T107.6 (Å°C)	660	

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