

Schott N-SK11 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-SK11-Glass.php

Physical Properties	Metric	English	Comments
Density	3.08 g/cc	0.111 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	570	570	.1/20
Modulus of Elasticity	79.0 GPa	11500 ksi	
Poissons Ratio	0.239	0.239	
Shear Modulus	32.0 GPa	4640 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	6.50 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.61 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	7.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	610 $\text{Å}^\circ\text{C}$	1130 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.56384	1.56384	n _d
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.56605	1.56605	n _e
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
Transmission, Visible	98.5 %	98.5 %	
	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	
	99.2 %	99.2 %	

Optical Properties	Metric	English	Comments
	99.6 %	99.6 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99.8 %	99.8 %	
	@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	
IR Transmittance	78.2 %	78.2 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.4 %	99.4 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	5.8 %	5.8 %	
	@Thickness 10.0 mm, Wavelength 290 nm	@Thickness 0.394 in, Wavelength 290 nm	
	21.2 %	21.2 %	
	@Thickness 10.0 mm, Wavelength 300 nm	@Thickness 0.394 in, Wavelength 300 nm	
	87.2 %	87.2 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	98 %	98 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	2.0	2.0	
Alkali Class, AR	1.0	1.0	
Stain Resistance Class, FR	0.00	0.00	

Descriptive Properties	Value	Comments
B	1	

Descriptive Properties	Value	Comments
HG	2	
K (10-6mm ² /N)	2.45	
Phosphate Resistance PR	2.3	
T1013.0 (Å°C)	601	
T107.6 (Å°C)	760	

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