

Schott N-LASF46A 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-LASF46A-Glass.php

Physical Properties	Metric	English	Comments
Density	4.45 g/cc	0.161 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	666	666	.1/20
Modulus of Elasticity	124 GPa	18000 ksi	
Poissons Ratio	0.298	0.298	
Shear Modulus	48.0 GPa	6960 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	7.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.540 J/g- $\text{Å}^\circ\text{C}$	0.129 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.910 W/m-K	6.32 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	638 $\text{Å}^\circ\text{C}$	1180 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.90366	1.90366	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.91048	1.91048	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	50.4 %	50.4 %	

Transmission Visible Optical Properties	@Thickness 10.0 mm, Wavelength 380 nm Metric	@Thickness 0.394 in, Wavelength 380 nm English	Comments
	84.7 %	84.7 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	95.9 %	95.9 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.3 %	99.3 %	
	@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	55.6 %	55.6 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.1 %	99.1 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	5.0 %	5.0 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	18.1 %	18.1 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	3.0	3.0	
Alkali Class, AR	1.0	1.0	
Stain Resistance Class, FR	0.00	0.00	

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

<small>K (10-6mm²/N)</small> Descriptive Properties	Value	Comments
Phosphate Resistance PR	1	
T1013.0 (Å°C)	639	
T107.6 (Å°C)	733	

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