

Schott N-LASF45 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-LASF45-Glass.php

Physical Properties	Metric	English	Comments
Density	3.63 g/cc	0.131 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	630	630	.1/20
Modulus of Elasticity	116 GPa	16800 ksi	
Poissons Ratio	0.281	0.281	
Shear Modulus	45.0 GPa	6530 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	7.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	8.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.660 J/g- $\text{Å}^\circ\text{C}$	0.158 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	1.02 W/m-K	7.08 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	647 $\text{Å}^\circ\text{C}$	1200 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.80107	1.80107	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.8065	1.8065	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	67.2 %	67.2 %	

Transmission Visible Optical Properties	@Thickness 10.0 mm, Wavelength 380 nm Metric	@Thickness 0.394 in, Wavelength 380 nm English	Comments
	87.7 %	87.7 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	96.5 %	96.5 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.4 %	99.4 %	
	@Thickness 10.0 mm, Wavelength 580 nm	@Thickness 0.394 in, Wavelength 580 nm	
	99.7 %	99.7 %	
	@Thickness 10.0 mm, Wavelength 700 nm	@Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	85.2 %	85.2 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.7 %	99.7 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	1.2 %	1.2 %	
	@Thickness 10.0 mm, Wavelength 350 nm	@Thickness 0.394 in, Wavelength 350 nm	
	33.6 %	33.6 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	57.6 %	57.6 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	3.2	3.2	
Alkali Class, AR	1.0	1.0	
Stain Resistance Class, FR	0.00	0.00	

Descriptive Properties	Value	Comments
B	0	

Descriptive Properties	Value	Comments
HG	3	
K (10-6mm ² /N)	2.01	
Phosphate Resistance PR	1	
T1013.0 (Å°C)	652	
T107.6 (Å°C)	773	

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