

Schott N-LAK9 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-LAK9-Glass.php

Physical Properties	Metric	English	Comments
Density	3.51 g/cc	0.127 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	700	700	.1/20
Modulus of Elasticity	110 GPa	16000 ksi	
Poissons Ratio	0.285	0.285	
Shear Modulus	43.0 GPa	6240 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	6.30 $\mu\text{m}/\text{m}\cdot\text{C}$	3.50 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature -30.0 - 70.0 $^{\circ}\text{C}$	@Temperature -22.0 - 158 $^{\circ}\text{F}$	
	7.50 $\mu\text{m}/\text{m}\cdot\text{C}$	4.17 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Specific Heat Capacity	0.649 J/g- $^{\circ}\text{C}$	0.155 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.908 W/m-K	6.30 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Transformation Temperature, Tg	656 $^{\circ}\text{C}$	1210 $^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.691	1.691	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.69401	1.69401	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
Transmission, Visible	95.4 %	95.4 %	
	@Thickness 10.0 mm,	@Thickness 0.394 in,	

Optical Properties	Wavelength 380 nm Metric	Wavelength 380 nm English	Comments
	98.3 %	98.3 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99.4 %	99.4 %	
	@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	49.2 %	49.2 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.2 %	99.2 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	0.44 %	0.44 %	
	@Thickness 10.0 mm, Wavelength 300 nm	@Thickness 0.394 in, Wavelength 300 nm	
	55.6 %	55.6 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	92.8 %	92.8 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	52	52	
Alkali Class, AR	1.2	1.2	
Stain Resistance Class, FR	3.0	3.0	

Descriptive Properties	Value	Comments
B	0	
Climatic Resistance Test CR	3	

Descriptive Properties	Value	Comments
K (10-6mm ² /N)	1.83	
Phosphate Resistance PR	4.3	
T1013.0 (°C)	645	
T107.6 (°C)	722	

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