

Schott N-LAK21 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-LAK21-Glass.php

Physical Properties	Metric	English	Comments
Density	3.74 g/cc	0.135 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	600	600	.1/20
Modulus of Elasticity	91.0 GPa	13200 ksi	
Poissons Ratio	0.272	0.272	
Shear Modulus	36.0 GPa	5220 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	6.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	8.10 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.50 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.590 J/g- $\text{Å}^\circ\text{C}$	0.141 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.880 W/m-K	6.11 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	639 $\text{Å}^\circ\text{C}$	1180 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.64049	1.64049	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.64304	1.64304	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	95.9 %	95.9 %	

Transmission Visible Optical Properties	@Thickness 10.0 mm, Wavelength 380 nm Metric	@Thickness 0.394 in, Wavelength 380 nm English	Comments
	98.2 %	98.2 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99 %	99 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.7 %	99.7 %	
	@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	53.6 %	53.6 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	98.8 %	98.8 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	6.0 %	6.0 %	
	@Thickness 10.0 mm, Wavelength 310 nm	@Thickness 0.394 in, Wavelength 310 nm	
	56.5 %	56.5 %	
	@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	53.2	53.2	
Alkali Class, AR	4.3	4.3	
Stain Resistance Class, FR	2.0	2.0	

Descriptive Properties	Value	Comments
B	0	

Descriptive Properties	Value	Comments
HG	5	
K (10-6mm ² /N)	1.74	
Phosphate Resistance PR	4.3	
T1013.0 (Å°C)	627	
T107.6 (Å°C)	716	

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