Schott N-LAK8 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-LAK8-Glass.php

Physical Properties	Metric	English	Comments
Density	3.75 g/cc	0.135 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	740	740	.1/20
Modulus of Elasticity	115 GPa	16700 ksi	
Poissons Ratio	0.289	0.289	
Shear Modulus	45.0 GPa	6530 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	5.60 Âµm/m-Â°C @Temperature -30.0 - 70.0 Â°C	3.11 Âµin/in-Â°F @Temperature -22.0 - 158 Â°F	
	6.70 Âµm/m-Â°C @Temperature 20.0 - 300 Â°C	3.72 Âµin/in-Â°F @Temperature 68.0 - 572 Â°F	
Specific Heat Capacity	0.620 J/g-Â°C	0.148 BTU/lb-Â°F	
Thermal Conductivity	0.840 W/m-K	5.83 BTU-in/hr-ftÂ²-Â°F	
Transformation Temperature, Tg	643 Â°C	1190 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.713 @Wavelength 587.6 nm	1.713 @Wavelength 587.6 nm	n_d
	1.71616 @Wavelength 546.1 nm	1.71616 @Wavelength 546.1 nm	n_e
	94.6 %	94.6 %	

Optical Properties	Metric	English	Comments
Transmission, Visible	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	
	98.1 % @Thickness 10.0 mm, Wavelength 405 nm	98.1 % @Thickness 0.394 in, Wavelength 405 nm	
	99.5 % @Thickness 10.0 mm, Wavelength 460 nm	99.5 % @Thickness 0.394 in, Wavelength 460 nm	
	99.8 % @Thickness 10.0 mm, Wavelength 580 nm	99.8 % @Thickness 0.394 in, Wavelength 580 nm	
	99.8 % @Thickness 10.0 mm, Wavelength 700 nm	99.8 % @Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	39.8 % @Thickness 10.0 mm, Wavelength 2500 nm	39.8 % @Thickness 0.394 in, Wavelength 2500 nm	
	99.2 % @Thickness 10.0 mm, Wavelength 1530 nm	99.2 % @Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	4.4 % @Thickness 10.0 mm, Wavelength 300 nm	4.4 % @Thickness 0.394 in, Wavelength 300 nm	
	50.9 % @Thickness 10.0 mm, Wavelength 334 nm	50.9 % @Thickness 0.394 in, Wavelength 334 nm	
	90.5 % @Thickness 10.0 mm, Wavelength 370 nm	90.5 % @Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	52.3	52.3	
Alkali Class, AR	1.0	1.0	
Stain Resistance Class, FR	2.0	2.0	

Descriptive Properties	Value	Comments
B	0	

Descriptive Properties	Value	Comments
Climatic Resistance Test CR	3	
HG	2	
K (10-6mm2/N)	1.81	
Phosphate Resistance PR	3.3	
T1013.0 (Â°C)	635	
T107.6 (Â°C)	717	

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