Schott N-LASF9 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-LASF9-Glass.php

Physical Properties	Metric	English	Comments
Density	4.41 g/cc	0.159 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	515	515	.1/20
Modulus of Elasticity	109 GPa	15800 ksi	
Poissons Ratio	0.288	0.288	
Shear Modulus	42.0 GPa	6090 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	7.40 Âµm/m-Â°C @Temperature -30.0 - 70.0 Â°C	4.11 Âµin/in-Â°F @Temperature -22.0 - 158 Â°F	
	8.40 Âµm/m-Â°C @Temperature 20.0 - 300 Â°C	4.67 Âµin/in-Â°F @Temperature 68.0 - 572 Â°F	
Specific Heat Capacity	0.530 J/g-Â°C	0.127 BTU/lb-Â°F	
Thermal Conductivity	0.790 W/m-K	5.48 BTU-in/hr-ftÂ²-Â°F	
Transformation Temperature, Tg	683 Â°C	1260 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.85025 @Wavelength 587.6 nm	1.85025 @Wavelength 587.6 nm	n_d
	1.8565 @Wavelength 546.1 nm	1.8565 @Wavelength 546.1 nm	n_e
	52.5 %	52.5 %	

Optical Properties	Metric	English	Comments
Transmission, Visible	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	
	83.1 % @Thickness 10.0 mm, Wavelength 405 nm	83.1 % @Thickness 0.394 in, Wavelength 405 nm	
	95.9 % @Thickness 10.0 mm, Wavelength 460 nm	95.9 % @Thickness 0.394 in, Wavelength 460 nm	
	99.2 % @Thickness 10.0 mm, Wavelength 580 nm	99.2 % @Thickness 0.394 in, Wavelength 580 nm	
	99.5 % @Thickness 10.0 mm, Wavelength 700 nm	99.5 % @Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	85.7 % @Thickness 10.0 mm, Wavelength 2500 nm	85.7 % @Thickness 0.394 in, Wavelength 2500 nm	
	99.6 % @Thickness 10.0 mm, Wavelength 1530 nm	99.6 % @Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	13.7 % @Thickness 10.0 mm, Wavelength 365 nm	13.7 % @Thickness 0.394 in, Wavelength 365 nm	
	27 % @Thickness 10.0 mm, Wavelength 370 nm	27 % @Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	2.0	2.0	
Alkali Class, AR	1.0	1.0	
Stain Resistance Class, FR	0.00	0.00	

Descriptive Properties	Value	Comments
B	1	
Climatic Resistance Test CR	1	
HG	4	

Descriptive Properties	Value	Comments
K (10-6mm2/N)	1.72	
Phosphate Resistance PR	1	
T1013.0 (Â°C)	700	
T107.6 (Â°C)	817	

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