

Schott LAFN7 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-LAFN7-Glass.php

Physical Properties	Metric	English	Comments
Density	4.38 g/cc	0.158 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	520	520	.1/20
Modulus of Elasticity	80.0 GPa	11600 ksi	
Poissons Ratio	0.28	0.28	
Shear Modulus	31.0 GPa	4500 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	5.30 $\mu\text{m/m-}^{\circ}\text{C}$	2.94 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature -30.0 - 70.0 $^{\circ}\text{C}$	@Temperature -22.0 - 158 $^{\circ}\text{F}$	
	6.40 $\mu\text{m/m-}^{\circ}\text{C}$	3.56 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	0.770 W/m-K	5.34 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Transformation Temperature, Tg	500 $^{\circ}\text{C}$	932 $^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.7495	1.7495	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.75458	1.75458	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
Transmission, Visible	84.2 %	84.2 %	
	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	

Optical Properties	Metric	English	Comments
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99.3 %	99.3 %	
	@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	
	38.2 %	38.2 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	98.4 %	98.4 %	
IR Transmittance	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
	12.5 %	12.5 %	
	@Thickness 10.0 mm, Wavelength 350 nm	@Thickness 0.394 in, Wavelength 350 nm	
	54.6 %	54.6 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
UV Transmittance	69.3 %	69.3 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	53.3	53.3	
Alkali Class, AR	2.2	2.2	
Stain Resistance Class, FR	1.0	1.0	

Descriptive Properties	Value	Comments
B	0	
Climatic Resistance Test CR	3	

Descriptive Properties	Value	Comments
K (10-6mm2/N)	1.77	
Phosphate Resistance PR	4.3	
T1013.0 (Å°C)	481	
T107.6 (Å°C)	573	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China