

Schott N-BAK4 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-BAK4-Glass.php

Physical Properties	Metric	English	Comments
Density	3.05 g/cc	0.110 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	550	550	.1/20
Modulus of Elasticity	77.0 GPa	11200 ksi	
Poissons Ratio	0.24	0.24	
Shear Modulus	31.0 GPa	4500 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 $\mu\text{m/m-}^{\circ}\text{C}$	3.89 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature -30.0 - 70.0 $^{\circ}\text{C}$	@Temperature -22.0 - 158 $^{\circ}\text{F}$	
	7.90 $\mu\text{m/m-}^{\circ}\text{C}$	4.39 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Specific Heat Capacity	0.680 J/g- $^{\circ}\text{C}$	0.163 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.880 W/m-K	6.11 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Transformation Temperature, Tg	581 $^{\circ}\text{C}$	1080 $^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.56883	1.56883	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.57125	1.57125	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	97.6 %	97.6 %	

Transmission Visible Optical Properties	Metric @Thickness 10.0 mm, Wavelength 380 nm	English @Thickness 0.394 in, Wavelength 380 nm	Comments
	99.3 %	99.3 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99.6 %	99.6 %	
	@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	
	99.9 %	99.9 %	
	@Thickness 10.0 mm, Wavelength 700 nm	@Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	78.2 %	78.2 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.3 %	99.3 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	1.2 %	1.2 %	
	@Thickness 10.0 mm, Wavelength 320 nm	@Thickness 0.394 in, Wavelength 320 nm	
	34.5 %	34.5 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	95.4 %	95.4 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	1.2	1.2	
Alkali Class, AR	1.0	1.0	
Stain Resistance Class, FR	0.00	0.00	

Descriptive Properties	Value	Comments
B	0	

Climatic Resistance Test CR		
Descriptive Properties	Value	Comments
HG	2	
K (10-6mm2/N)	2.9	
Phosphate Resistance PR	1	
T1013.0 (Å°C)	569	
T107.6 (Å°C)	725	

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