

Schott N-BK10 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-BK10-Glass.php

Physical Properties	Metric	English	Comments
Density	2.39 g/cc	0.0863 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	560	560	.1/20
Modulus of Elasticity	71.0 GPa	10300 ksi	
Poissons Ratio	0.203	0.203	
Shear Modulus	30.0 GPa	4350 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	5.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	6.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.67 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.810 J/g- $\text{Å}^\circ\text{C}$	0.194 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	1.32 W/m-K	9.16 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	551 $\text{Å}^\circ\text{C}$	1020 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.49782	1.49782	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.4996	1.4996	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	99.4 %	99.4 %	

Transmission Visible Optical Properties	Metric @Thickness 10.0 mm, Wavelength 380 nm	English @Thickness 0.394 in, Wavelength 380 nm	Comments
	99.6 %	99.6 %	
	@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	
	99.7 %	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	73.9 %	73.9 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.2 %	99.2 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	1.0 %	1.0 %	
	@Thickness 10.0 mm, Wavelength 270 nm	@Thickness 0.394 in, Wavelength 270 nm	
	70.7 %	70.7 %	
	@Thickness 10.0 mm, Wavelength 300 nm	@Thickness 0.394 in, Wavelength 300 nm	
	97.8 %	97.8 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	99.4 %	99.4 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	1.0	1.0	
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	
K (10-6mm ² /N)	3.21	
Phosphate Resistance PR	1	
T1013.0 (Å°C)	0	
T107.6 (Å°C)	753	

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