

Schott KZFSN5 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-KZFSN5-Glass.php

Physical Properties	Metric	English	Comments
Density	3.46 g/cc	0.125 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	460	460	.1/20
Modulus of Elasticity	65.0 GPa	9430 ksi	
Poissons Ratio	0.275	0.275	
Shear Modulus	25.0 GPa	3630 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 $\mu\text{m/m-}^{\circ}\text{C}$	2.50 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature -30.0 - 70.0 $^{\circ}\text{C}$	@Temperature -22.0 - 158 $^{\circ}\text{F}$	
	5.70 $\mu\text{m/m-}^{\circ}\text{C}$	3.17 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Transformation Temperature, Tg	501 $^{\circ}\text{C}$	934 $^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.65412	1.65412	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.65803	1.65803	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
Transmission, Visible	93.7 %	93.7 %	
	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	
	98 %	98 %	

Optical Properties	Metric @Thickness 10.0 mm, Wavelength 405 nm	English @Thickness 0.394 in, Wavelength 405 nm	Comments
	99.4 %	99.4 %	
	@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	
IR Transmittance	24.6 %	24.6 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
UV Transmittance	96.7 %	96.7 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
	13 %	13 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	51.5 %	51.5 %	
	@Thickness 10.0 mm, Wavelength 350 nm	@Thickness 0.394 in, Wavelength 350 nm	
	84.2 %	84.2 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	88.7 %	88.7 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	52.3	52.3	
Alkali Class, AR	4.3	4.3	
Stain Resistance Class, FR	2.0	2.0	

Descriptive Properties	Value	Comments
B	1	

Climatic Resistance Test CR		
Descriptive Properties	Value	Comments
HG	5	
K (10-6mm2/N)	2.89	
Phosphate Resistance PR	4.3	
T1013.0 (Å°C)	479	
T107.6 (Å°C)	0	

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