

Schott F5 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-F5-Glass.php

Physical Properties	Metric	English	Comments
Density	3.47 g/cc	0.125 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	450	450	.1/20
Modulus of Elasticity	58.0 GPa	8410 ksi	
Poissons Ratio	0.22	0.22	
Shear Modulus	24.0 GPa	3480 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	8.90 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.94 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	438 $\text{Å}^\circ\text{C}$	820 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.60342	1.60342	n _d
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.60718	1.60718	n _e
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
Transmission, Visible	98.4 %	98.4 %	
	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	
	98.8 %	98.8 %	

Optical Properties	@Thickness 10.0 mm, Wavelength 580 nm Metric	@Thickness 0.394 in, Wavelength 580 nm English	Comments
	99.4 %	99.4 %	
	@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	
	99.9 %	99.9 %	
	@Thickness 10.0 mm, Wavelength 700 nm	@Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	78.7 %	78.7 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.5 %	99.5 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	8.0 %	8.0 %	
	@Thickness 10.0 mm, Wavelength 320 nm	@Thickness 0.394 in, Wavelength 320 nm	
	61.8 %	61.8 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	97.1 %	97.1 %	
	@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	2.3	2.3	
Stain Resistance Class, FR	0.00	0.00	

Descriptive Properties	Value	Comments
B	0	
Climatic Resistance Test CR	1	
HG	3	

K (10-6mm ² /N) Descriptive Properties	Value	Comments
Phosphate Resistance PR	2	
T1013.0 (Å°C)	425	
T107.6 (Å°C)	608	

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