

## Schott F2HT 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-F2HT-Glass.php](http://www.lookpolymers.com/polymer_Schott-F2HT-Glass.php)

Physical Properties	Metric	English	Comments
Density	3.60 g/cc	0.130 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	420	420	.1/20
Modulus of Elasticity	57.0 GPa	8270 ksi	
Poissons Ratio	0.22	0.22	
Shear Modulus	23.0 GPa	3340 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	8.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	9.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.557 J/g- $\text{Å}^\circ\text{C}$	0.133 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.780 W/m-K	5.41 BTU-in/hr-ft $\text{Å}^2$ - $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	434 $\text{Å}^\circ\text{C}$	813 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.62004	1.62004	n <sub>d</sub>
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.62408	1.62408	n <sub>e</sub>
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	99.3 %	99.3 %	

Transmission Visible Optical Properties	@Thickness 10.0 mm, Metric Wavelength 380 nm	@Thickness 0.394 in, English Wavelength 380 nm	Comments
	99.7 %	99.7 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	99.8 %	99.8 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.9 %	99.9 %	
	@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	87.4 %	87.4 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.8 %	99.8 %	
	@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	
	56.5 %	56.5 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	98.8 %	98.8 %	
	@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	

<b>Climatic Resistance Test CR</b> Descriptive Properties	Value	Comments
HG	2	
K (10-6mm <sup>2</sup> /N)	2.81	
Phosphate Resistance PR	1.3	
T1013.0 (Å°C)	430	
T107.6 (Å°C)	594	

## Contact Songhan Plastic Technology Co.,Ltd.

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