

Schott SF56A 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-SF56A-Glass.php

Physical Properties	Metric	English	Comments
Density	4.92 g/cc	0.178 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	380	380	.1/20
Modulus of Elasticity	57.0 GPa	8270 ksi	
Poissons Ratio	0.239	0.239	
Shear Modulus	23.0 GPa	3340 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	7.90 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.39 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	8.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	429 $\text{Å}^\circ\text{C}$	804 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.7847	1.7847	n _d
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.7918	1.7918	n _e
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
Transmission, Visible	39.8 %	39.8 %	
	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	
	89.6 %	89.6 %	

Optical Properties	Metric @Thickness 10.0 mm, Wavelength 405 nm	English @Thickness 0.394 in, Wavelength 405 nm	Comments
	99 %	99 %	
	@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	86.7 %	86.7 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.6 %	99.6 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	4.0 %	4.0 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	12 %	12 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	3.2	3.2	
Alkali Class, AR	2.2	2.2	
Stain Resistance Class, FR	1.0	1.0	

Descriptive Properties	Value	Comments
B	1	
Climatic Resistance Test CR	1	
HG	1	
K (10-6mm ² /N)	1.1	
Phosphate Resistance PR	3.2	
T1013.0 (Å°C)		

Descriptive Properties	Value	Comments
T107.6 (Å°C)	556	

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