

## Schott N-PSK53A 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-PSK53A-Glass.php](http://www.lookpolymers.com/polymer_Schott-N-PSK53A-Glass.php)

Physical Properties	Metric	English	Comments
Density	3.57 g/cc	0.129 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	415	415	.1/20
Modulus of Elasticity	76.0 GPa	11000 ksi	
Poissons Ratio	0.288	0.288	
Shear Modulus	30.0 GPa	4350 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	9.60 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	10.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.590 J/g- $\text{Å}^\circ\text{C}$	0.141 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.640 W/m-K	4.44 BTU-in/hr-ft $\text{Å}^2$ - $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	606 $\text{Å}^\circ\text{C}$	1120 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.618	1.618	n <sub>d</sub>
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.62033	1.62033	n <sub>e</sub>
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
	94 %	94 %	

Transmission Visible Optical Properties	@Thickness 10.0 mm, Metric Wavelength 460 nm	@Thickness 0.394 in, English Wavelength 460 nm	Comments
	95.9 %	95.9 %	
	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	
	98.8 %	98.8 %	
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 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	60.9 %	60.9 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	98.2 %	98.2 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	6.1 %	6.1 %	
	@Thickness 10.0 mm, Wavelength 310 nm	@Thickness 0.394 in, Wavelength 310 nm	
	52.5 %	52.5 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	92.8 %	92.8 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	53.3	53.3	
Alkali Class, AR	2.3	2.3	
Stain Resistance Class, FR	1.0	1.0	

Descriptive Properties	Value	Comments
B	1	

<b>Climatic Resistance Test CR</b> Descriptive Properties	Value	Comments
HG	6	
K (10-6mm <sup>2</sup> /N)	1.16	
Phosphate Resistance PR	4.3	
T1013.0 (Å°C)	609	
T107.6 (Å°C)	699	

## Contact Songhan Plastic Technology Co.,Ltd.

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