

Schott N-SSK5 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-SSK5-Glass.php

Physical Properties	Metric	English	Comments
Density	3.71 g/cc	0.134 lb/in ³	

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	590	590	.1/20
Modulus of Elasticity	88.0 GPa	12800 ksi	
Poissons Ratio	0.278	0.278	
Shear Modulus	34.0 GPa	4930 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	6.80 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -30.0 - 70.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 158 $\text{Å}^\circ\text{F}$	
	8.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.574 J/g- $\text{Å}^\circ\text{C}$	0.137 BTU/lb- $\text{Å}^\circ\text{F}$	
Transformation Temperature, Tg	645 $\text{Å}^\circ\text{C}$	1190 $\text{Å}^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.65844	1.65844	n_{d}
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
	1.66152	1.66152	n_{e}
	@Wavelength 546.1 nm	@Wavelength 546.1 nm	
Transmission, Visible	89.6 %	89.6 %	
	@Thickness 10.0 mm, Wavelength 380 nm	@Thickness 0.394 in, Wavelength 380 nm	

Optical Properties	96.3 % Metric	96.3 % English	Comments
	@Thickness 10.0 mm, Wavelength 405 nm	@Thickness 0.394 in, Wavelength 405 nm	
	98.7 %	98.7 %	
	@Thickness 10.0 mm, Wavelength 460 nm	@Thickness 0.394 in, Wavelength 460 nm	
	99.7 %	99.7 %	
	@Thickness 10.0 mm, Wavelength 580 nm	@Thickness 0.394 in, Wavelength 580 nm	
	99.7 %	99.7 %	
	@Thickness 10.0 mm, Wavelength 700 nm	@Thickness 0.394 in, Wavelength 700 nm	
IR Transmittance	72.7 %	72.7 %	
	@Thickness 10.0 mm, Wavelength 2500 nm	@Thickness 0.394 in, Wavelength 2500 nm	
	99.2 %	99.2 %	
	@Thickness 10.0 mm, Wavelength 1530 nm	@Thickness 0.394 in, Wavelength 1530 nm	
UV Transmittance	1.7 %	1.7 %	
	@Thickness 10.0 mm, Wavelength 334 nm	@Thickness 0.394 in, Wavelength 334 nm	
	33.6 %	33.6 %	
	@Thickness 10.0 mm, Wavelength 350 nm	@Thickness 0.394 in, Wavelength 350 nm	
	72.7 %	72.7 %	
	@Thickness 10.0 mm, Wavelength 365 nm	@Thickness 0.394 in, Wavelength 365 nm	
	80.4 %	80.4 %	
	@Thickness 10.0 mm, Wavelength 370 nm	@Thickness 0.394 in, Wavelength 370 nm	

Chemical Properties	Metric	English	Comments
Acid Class, SR	52.2	52.2	
Alkali Class, AR	2.2	2.2	
Stain Resistance Class, FR	3.0	3.0	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Climatic Resistance Test CR	2	
HG	5	
K (10-6mm ² /N)	1.9	
Phosphate Resistance PR	3.2	
T1013.0 (Å°C)	637	
T107.6 (Å°C)	751	

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