

## Schott Glass 8270 Borosilicate Glass

Category : Ceramic , Glass

### Material Notes:

Borosilicate glass for sealing to Kovar metal and molybdenum, electrically highly insulating, defined UV absorption, stabilized against solarization Backlights The heavy metal content for the elements lead, cadmium, mercury, and hexavalent chromium is below 100 ppm Information provided by SCHOTT AG.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Schott-Glass-8270-Borosilicate-Glass.php](http://www.lookpolymers.com/polymer_Schott-Glass-8270-Borosilicate-Glass.php)

Physical Properties	Metric	English	Comments
Density	2.27 g/cc	0.0820 lb/in <sup>3</sup>	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	64.0 GPa	9280 ksi	
Poissons Ratio	0.21	0.21	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 Åµm/m-Å°C	2.78 Åµin/in-Å°F	ISO 7991
	@Temperature 20.0 - 300 Å°C	@Temperature 68.0 - 572 Å°F	
Thermal Conductivity	1.20 W/m-K	8.33 BTU-in/hr-ft <sup>2</sup> - Å°F	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
Transformation Temperature, Tg	490 Å°C	914 Å°F	ISO 7884-8
Softening Point	705 Å°C	1300 Å°F	Viscosity 10<sup>7.6</sup> dPa s; ISO 7884-3
Working Point	1040 Å°C	1900 Å°F	Viscosity 10<sup>4</sup> dPa s; ISO 7884-2
Annealing Point	505 Å°C	941 Å°F	Viscosity 10<sup>13</sup> dPa s; ISO 7884-4

Optical Properties	Metric	English	Comments
Refractive Index	1.487	1.487	
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+8 ohm-cm	2.50e+8 ohm-cm	
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	2.00e+10 ohm-cm	2.00e+10 ohm-cm	
	@Temperature 250 Â°C	@Temperature 482 Â°F	
Dielectric Constant	5.3	5.3	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	
Dielectric Loss Index	0.0127	0.0127	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	

Chemical Properties	Metric	English	Comments
Acid Class, SR	4	4	DIN 12116
Alkali Class, AR	3	3	ISO 695

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class HGB 3	ISO 719
Stress-optical Coefficient K (10-6mm2N-1)	3.6	DIN 52314
tk100(Â°C)	377	

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