

Schott Glass 8271 Borosilicate Glass

Category : Ceramic , Glass

Material Notes:

Borosilicate glass, highly UV-blocked, stabilized against solarization. Used for sealing glass to KOVAR metal and 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-8271-Borosilicate-Glass.php

Physical Properties	Metric	English	Comments
Density	2.32 g/cc @Temperature 25.0 Â°C	0.0838 lb/inÂ³ @Temperature 77.0 Â°F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	60.0 GPa	8700 ksi	
Poissons Ratio	0.21	0.21	

Thermal Properties	Metric	English	Comments
CTE, linear	5.20 Âµm/m-Â°C @Temperature 20.0 - 300 Â°C	2.89 Âµin/in-Â°F @Temperature 68.0 - 572 Â°F	ISO 7991
Thermal Conductivity	1.10 W/m-K @Temperature 90.0 Â°C	7.63 BTU-in/hr-ftÂ²- Â°F @Temperature 194 Â°F	
Transformation Temperature, Tg	505 Â°C	941 Â°F	ISO 7884-8
Softening Point	715 Â°C	1320 Â°F	Viscosity 10^{7.6} dPa s; ISO 7884-3
Working Point	1040 Â°C	1900 Â°F	Viscosity 10⁴ dPa s; ISO 7884-2
Annealing Point	515 Â°C	959 Â°F	Viscosity 10¹³ dPa s; ISO 7884-4

Optical Properties	Metric	English	Comments
Refractive Index	1.502 @Wavelength 587.6 nm	1.502 @Wavelength 587.6 nm	

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.6e+8 ohm-cm Metric	1.6e+8 ohm-cm English	Comments
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	1e+10 ohm-cm	1e+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	0.0060	0.0060	
	@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)	4.0	DIN 52314
tk100(Â°C)	365	

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