

Schott Glass 8245 Borosilicate Glass

Category : Ceramic , Glass

Material Notes:

Borosilicate glass for sealing to Kovar metal and molybdenum, minimum X-ray absorption, low self radiation, good insulator X-ray tubes, video-frequency tubes, photomultiplier tubes The heavy metal content for the elements lead, mercury, cadmium, 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-8245-Borosilicate-Glass.php

Physical Properties	Metric	English	Comments
Density	2.31 g/cc	0.0835 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	68.0 GPa	9860 ksi	
Poissons Ratio	0.22	0.22	

Thermal Properties	Metric	English	Comments
CTE, linear	5.10 Åµm/m-Å°C	2.83 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 ² - Å°F	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
Transformation Temperature, Tg	505 Å°C	941 Å°F	ISO 7884-8
Softening Point	720 Å°C	1330 Å°F	Viscosity 10^{7.6} dPa s; ISO 7884-3
Working Point	1040 Å°C	1900 Å°F	Viscosity 10⁴ dPa s; ISO 7884-2
Annealing Point	515 Å°C	959 Å°F	Viscosity 10¹³ dPa s; ISO 7884-4

Optical Properties	Metric	English	Comments
Refractive Index	1.488	1.488	
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	790000 ohm-cm	790000 ohm-cm	
	@Temperature 350 Å°C	@Temperature 662 Å°F	
	2.50e+7 ohm-cm	2.50e+7 ohm-cm	
	@Temperature 250 Å°C	@Temperature 482 Å°F	
Dielectric Constant	5.7	5.7	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Å°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Å°F	
Dielectric Loss Index	0.0080	0.0080	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Å°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Å°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)	3.8	DIN 52314
tk100(Å°C)	215	

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