

Schott Glass 8253 Alkaline Earth Aluminosilicate Glass

Category : Ceramic , Glass

Material Notes:

Alkaline earth aluminosilicate glass for high temperature application in electrical engineering, for sealing to molybdenum, for use at higher temperatures than glass 8252, free from alkali Bulb and exhaust tube for halogen lamps for automotive, household, and general lighting
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-8253-Alkaline-Earth-Aluminosilicate-Glass.php

Physical Properties	Metric	English	Comments
Density	2.67 g/cc @Temperature 25.0 Â°C	0.0965 lb/inÂ³ @Temperature 77.0 Â°F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	83.0 GPa	12000 ksi	
Poissons Ratio	0.23	0.23	

Thermal Properties	Metric	English	Comments
CTE, linear	4.70 Âµm/m-Â°C @Temperature 20.0 - 300 Â°C	2.61 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	790 Â°C	1450 Â°F	ISO 7884-8
Softening Point	1005 Â°C	1841 Â°F	Viscosity 10^{7.6} dPa s; ISO 7884-3
Working Point	1305 Â°C	2381 Â°F	Viscosity 10⁴ dPa s; ISO 7884-2
Annealing Point	795 Â°C	1460 Â°F	Viscosity 10¹³ dPa s; ISO 7884-4
Strain Point	750 Â°C	1380 Â°F	Viscosity 10^{14.5} dPa s; ISO 7884-7

Optical Properties	Metric	English	Comments
	1.547	1.547	

Refractive Index Optical Properties	Metric	English	Comments
	@Wavelength 587.6 nm	@Wavelength 587.6 nm	
UV Transmittance	<= 72 % @Thickness 1.00 mm, Wavelength 330 nm	<= 72 % @Thickness 0.0394 in, Wavelength 330 nm	

Component Elements Properties	Metric	English	Comments
Alkalis	<= 0.030 %	<= 0.030 %	Total Alkali Oxide

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
	@Temperature 250 Â°C	@Temperature 482 Â°F	
Dielectric Constant	6.6	6.6	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	
Dielectric Loss Index	0.0015	0.0015	
	@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	2	2	DIN 12116
Alkali Class, AR	2	2	ISO 695

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class HGB 1	ISO 719
Stress-optical Coefficient K (10-6mm ² N-1)	2.7	DIN 52314
tk100(Â°C)	630	DIN 52326

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