

Schott Glass 8095 Lead Glass

Category : Ceramic , Glass

Material Notes:

Lead glass (28% PbO), electrically highly insulating, highly x-ray absorbing General electrotechnical application Information provided by SCHOTT AG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-Glass-8095-Lead-Glass.php

Physical Properties	Metric	English	Comments
Density	3.01 g/cc @Temperature 25.0 Â°C	0.109 lb/inÂ³ @Temperature 77.0 Â°F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	60.0 GPa	8700 ksi	
Poissons Ratio	0.22	0.22	

Thermal Properties	Metric	English	Comments
CTE, linear	9.10 Âµm/m-Â°C @Temperature 20.0 - 300 Â°C	5.06 Âµin/in-Â°F @Temperature 68.0 - 572 Â°F	ISO 7991
Thermal Conductivity	0.900 W/m-K @Temperature 90.0 Â°C	6.25 BTU-in/hr-ftÂ²- Â°F @Temperature 194 Â°F	
Transformation Temperature, Tg	430 Â°C	806 Â°F	ISO 7884-8
Softening Point	630 Â°C	1170 Â°F	Viscosity 10^{7.6} dPa s; ISO 7884-3
Working Point	982 Â°C	1800 Â°F	Viscosity 10⁴ dPa s; ISO 7884-2
Annealing Point	435 Â°C	815 Â°F	Viscosity 10¹³ dPa s; ISO 7884-4

Optical Properties	Metric	English	Comments
Refractive Index	1.556 @Wavelength 587.6 nm	1.556 @Wavelength 587.6 nm	

Electrical Properties	Metric	English	Comments
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Electrical Properties	4.00e+7 ohm-cm Metric	4.00e+7 ohm-cm English	Comments
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	4.00e+9 ohm-cm	4.00e+9 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	0.0011	0.0011	
	@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	3	3	ISO 695

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class HGB 3	ISO 719
Stress-optical Coefficient K (10-6mm2N-1)	3.1	DIN 52314
tk100(Â°C)	330	

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