

Schott DURAN® Borosilicate Glass

Category : Ceramic , Glass

Material Notes:

Borosilicate glass 3.3 acc. To ISO 3585, chemically and thermally highly resistant, general-purpose glass for apparatus for the chemical industry, for pipelines, and glassware. Information provided by SCHOTT AG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-DURAN-Borosilicate-Glass.php

Physical Properties	Metric	English	Comments
Density	2.23 g/cc @Temperature 25.0 °C	0.0806 lb/in ³ @Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	63.0 GPa	9140 ksi	
Poissons Ratio	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	3.30 Åµm/m-Å°C @Temperature 20.0 - 300 Å°C	1.83 Åµin/in-Å°F @Temperature 68.0 - 572 Å°F	ISO 7991
Thermal Conductivity	1.20 W/m-K @Temperature 90.0 Å°C	8.33 BTU-in/hr-ftÅ²- Å°F @Temperature 194 Å°F	
Transformation Temperature, Tg	525 Å°C	977 Å°F	ISO 7884-8
Softening Point	825 Å°C	1520 Å°F	Viscosity 10^{7.6} dPa s; ISO 7884-3
Working Point	1260 Å°C	2300 Å°F	Viscosity 10⁴ dPa s; ISO 7884-2
Annealing Point	560 Å°C	1040 Å°F	Viscosity 10¹³ dPa s; ISO 7884-4

Optical Properties	Metric	English	Comments
Refractive Index	1.473 @Wavelength 587.6 nm	1.473 @Wavelength 587.6 nm	

Electrical Properties	Metric	English	Comments
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Electrical Properties	3.20e+6 ohm-cm Metric	3.20e+6 ohm-cm English	Comments
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
	@Temperature 250 Â°C	@Temperature 482 Â°F	
Dielectric Constant	4.6	4.6	
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	
Dielectric Loss Index	0.0037	0.0037	
	@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	1	1	DIN 12116
Alkali Class, AR	2	2	ISO 695

Descriptive Properties	Value	Comments
Hydrolytic Resistance	Class HGB 1	ISO 719
Stress-optical Coefficient K (10-6mm2N-1)	4	DIN 52314
tk100(Â°C)	250	

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