

Schott CONTURAX® Borosilicate Glass

Category : Ceramic , Glass

Material Notes:

Borosilicate glass tubing and rod, varying types of inner and outer shapes Lighting, giftware, and decoration 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-CONTURAX-Borosilicate-Glass.php

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

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	63.0 GPa	9140 ksi	
Poissons Ratio	0.20	0.20	
Shear Modulus	26.3 GPa	3810 ksi	Calculated

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

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

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+5 ohm-cm	1.20e+5 ohm-cm	
	@Temperature 350 °C	@Temperature 662 °F	
	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
	@Temperature 250 °C	@Temperature 482 °F	
Dielectric Constant	4.6	4.6	
	@Frequency 1.00e+6 Hz, Temperature 25.0 °C	@Frequency 1.00e+6 Hz, Temperature 77.0 °F	
Dielectric Loss Index	0.0037	0.0037	
	@Frequency 1.00e+6 Hz, Temperature 25.0 °C	@Frequency 1.00e+6 Hz, Temperature 77.0 °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 (10-6mm ² N ⁻¹)	4	DIN 52314
tk100(°C)	250	

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