

Schott BORO-8330 Borosilicate Glass

Category : Ceramic , Glass

Material Notes:

Borosilicate glass 3.3 acc. ISO 3585, chemically highly resistant, highly resistant to thermal shock, special applications in the pharmaceutical industry
Information provided by SCHOTT AG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-BORO-8330-Borosilicate-Glass.php

Physical Properties	Metric	English	Comments
Density	2.23 g/cc @Temperature 25.0 Â°C	0.0806 lb/inÂ³ @Temperature 77.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	3.30 Âµm/m-Â°C @Temperature 20.0 - 300 Â°C	1.83 Âµin/in-Â°F @Temperature 68.0 - 572 Â°F	ISO 7991
Transformation Temperature, Tg	525 Â°C	977 Â°F	
Softening Point	825 Â°C	1520 Â°F	Viscosity 10^{7.6} dPa s
Working Point	1260 Â°C	2300 Â°F	Viscosity 10⁴ dPa s
Annealing Point	560 Â°C	1040 Â°F	Viscosity 10¹³ dPa s

Optical Properties	Metric	English	Comments
Transmission, Visible	92 % @Wavelength 400 - 800 nm, Thickness 1.00 mm	92 % @Wavelength 400 - 800 nm, Thickness 0.0394 in	
IR Transmittance	0.00 % @Thickness 1.00 mm, Wavelength 4750 nm	0.00 % @Thickness 0.0394 in, Wavelength 4750 nm	Cutoff
	5.0 - 18 % @Wavelength 3500 - 4500 nm, Thickness 1.00 mm	5.0 - 18 % @Wavelength 3500 - 4500 nm, Thickness 0.0394 in	
	17 % @Thickness 1.00 mm, Wavelength 2750 nm	17 % @Thickness 0.0394 in, Wavelength 2750 nm	

Optical Properties	^{62 %} Metric	^{62 %} English	Comments
	@Thickness 1.00 mm, Wavelength 3250 nm	@Thickness 0.0394 in, Wavelength 3250 nm	
	90 - 93 %	90 - 93 %	
	@Wavelength 800 - 2500 nm, Thickness 1.00 mm	@Wavelength 800 - 2500 nm, Thickness 0.0394 in	

Component Elements Properties	Metric	English	Comments
Al2O3	2.0 %	2.0 %	
B2O3	13 %	13 %	
K2O	0.50 %	0.50 %	
Na2O	3.5 %	3.5 %	
SiO2	81 %	81 %	

Chemical Properties	Metric	English	Comments
Acid Class, SR	1	1	DIN 12116
Alkali Class, AR	2	2	ISO 695

Descriptive Properties	Value	Comments
Glasses in Laboratory Apparatus	Type I, Class A	ASTM E 438
Hydrolytic Resistance	Class HGB 1	ISO 719
	fulfilled	JP
	Type I	Ph. Eur.
	Type I	USP

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