

Schott D 263 Thin Borosilicate Glass

Category : Ceramic , Glass , Optical , Oxide , Silicon Oxide

Material Notes:

D 263 is a low alkali borosilicate glass that is produced by melting the purest raw materials. As such, it is very resistant to chemical attack. D 263, with its specific properties and large range of different thicknesses with tight tolerances, is exceptionally well suited for a number of applications including: liquid crystal displays, optoelectronics, touch control panels, sensors, electroluminescent displays and solar cells. Due to a special down draw production process, D 263 glass sheets are marked by fire-polished surfaces; this glass type can be used without ground and polished surfaces. Information provided by SCHOTT North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schott-D-263-Thin-Borosilicate-Glass.php

Physical Properties	Metric	English	Comments
Density	2.51 g/cc	0.0907 lb/in ³	
Thickness	30.0 - 1100 microns	1.18 - 43.3 mil	

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	590	590	HK₁₀₀
Modulus of Elasticity	72.9 GPa	10600 ksi	
Poissons Ratio	0.208	0.208	
Shear Modulus	30.1 GPa	4370 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.20 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	4.00 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.820 J/g- $\text{Å}^\circ\text{C}$	0.196 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.926 W/m-K	6.43 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 0.000 $\text{Å}^\circ\text{C}$	@Temperature 32.0 $\text{Å}^\circ\text{F}$	
	1.076 W/m-K	7.467 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 100 $\text{Å}^\circ\text{C}$	@Temperature 212 $\text{Å}^\circ\text{F}$	
	1.153 W/m-K	8.002 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	

Thermal Properties	Metric@Temperature 200 Â°C	English@ Temperature 392 Â°F	Comments
	1.248 W/m-K	8.661 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 500 Â°C	@Temperature 932 Â°F	
Transformation Temperature, Tg	557 Â°C	1030 Â°F	
Softening Point	736 Â°C	1360 Â°F	10^{7.6} dPa-s
Annealing Point	557 Â°C	1030 Â°F	10¹³ dPa-s

Optical Properties	Metric	English	Comments
Refractive Index	1.5231	1.5231	n_d
	@Wavelength 588 nm	@Wavelength 588 nm	
	1.5255	1.5255	n_e
	@Wavelength 546 nm	@Wavelength 546 nm	
Transmission, Visible	91.7 %	91.7 %	
	@Thickness 1.10 mm	@Thickness 0.0433 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+14 ohm-cm	1.70e+14 ohm-cm	RT
	3.50e+6 ohm-cm	3.50e+6 ohm-cm	
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	1.60e+8 ohm-cm	1.60e+8 ohm-cm	
	@Temperature 250 Â°C	@Temperature 482 Â°F	
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	RT
Dielectric Constant	6.7	6.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	16.5 kV/mm	419 kV/in	
Dissipation Factor	0.0061	0.0061	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Abbe Value	55	v_e
Dispersion	0.0096	n_F - n_C

Descriptive Properties	Value	Comments
Stress Optical Coefficient	3.4	(1.02x10 ⁻¹² m ² /N

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China