3600 W. Moore Avenue, Santa Ana, CA 92704 714.540.0126 Fax 714.540.1482 info@pgo.com

Description:

D 263 is well suited for many applications because of its specific properties and large range of thicknesses. Its special fire-polished surface makes this thin glass able to be used without grinding and polishing. D 263 is a borosilicate glass which is produced by melting the purest raw materials, making it very resistant to chemical attack. This product features tightly held thicknesses, cutting properties, and high light transmission.

<u>Available Thicknesses:</u> <u>Sheet size: for most thicknesses 14" x 17" is maximum.</u>

Thickness	Tolerance	Thickness	Tolerance	Thickness	Tolerance
.050mm	± .010mm	.300mm	± .020mm	.900mm	± .100mm
.070mm	± .010mm	.400mm	± .020mm	1.100mm	± .100mm
.100mm	± .010mm	.550mm	± .050mm		
.210mm	± .020mm	.700mm	± .100mm		

Properties:

Refractive Index: $n_d (\lambda = 588nm) = 1.5230$

<u>Transmission: (estimated at .15 mm thick)</u>

@300nm	10%	@ 350nm	90%
@311nm	40%	@380-920nm	91%+
@321nm	70%		

Mechanical and Thermal:

Density 2.51 g/cm³

Young's Modulus E= 72.9 KN/mm²

Thermal Coefficient of Expansion (0-300°C) = 72×10^{-7} /°C

Strain Point 529° C

Chemical:

Solution	5% Na OH	N/50 Na ₂ CO ₃	5% HCL
Temp in (°C)	95°	95°	95°
Reaction time (hr) 6		6	24
Loss of Weigh (mg/cm ²)	t 2.1	0.05	0.02

Electrical:

Dielectric Constant (1 MHz): r = 6.7

Dielectric Loss Factor (1 MHz): $tan = 61 \times 10^{-4}$

Applications:

Touch control panels, LCDs, electroluminescent displays, solar cells and microscales for measuring devices.

Flatness, parallelism, cutting tolerances, roughness, cosmetic defects and visual inspection all conform to the specifications to be agreed upon by Precision Glass & Optics and the customer.



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