

BOROSILICATE GLASS

Borosilicate glass, known under trade names such as Pyrex[®] and Duran[®], is widely used in chemical and engineering applications. This glass is chemically resistant, has a low thermal expansion coefficient and can be used at relatively high temperatures. It is available in many forms and sizes such as rod, tube, plate and as machined or hot formed components.

The table below shows typical properties of borosilicate glass.

	PROPERTY	UNITS	
GENERAL	Density	g/cm ³	2.23
MECHANICAL	Young's Modulus	GPa	64
THERMAL	Max. use temperature	°C	500
	Thermal Conductivity	W/mK	1.14
	Coefficient of Linear Thermal Expansion	10 ⁻⁶ /°C	3.3
ELECTRICAL	Volume Resistance	Ωcm	10 ¹⁵
	Dielectric Constant		4.6
	Dielectric Strength	kV/mm	30

Properties shown are typical values, they are not absolute material properties, and should be used for guidance only. It is recommended that materials and components are tested for their suitability for a specific application.

Typical Applications:

- Chemical apparatus
- Labware
- Sight glasses
- Viewports
- Analytical equipment
- Optics
- Photonics
- Biotechnology

For more information and advice please discuss your application with our sales staff.

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