

BOROFLOAT™

PRODUCT DESCRIPTION

BOROFLOAT™ is a high quality flat (float) glass product offering excellent optical characteristics. This borosilicate flat glass is ideal for use in laboratories, chemical processing plants, as well as in lighting and home appliance manufacturing. BOROFLOAT™ is highly resistant to water, acidic and saline solutions, chlorine, bromine, iodine and organic substances. For extended periods of time and at temperatures above 100°C, BOROFLOAT™ exceeds the chemical resistance of most metals and other materials. The maximum long-term operating temperature is 450°C.

Maximum Sheet Size: 33" x 45"

Thickness Available: 1/8" [approx. 3.0 mm]

PROPERTIES

Refractive Index:		$n_d (\lambda = 588 \text{ nm}) = 1.472$		
Transmission (estimated at 3.3 mm thick):	@ 300 nm	46%	@ 340 nm 89.5%	
	@ 320 nm	80%	350-2100 nm 90%+	
Mechanical and Thermal:	Density	2.20 g/cm ³		
	Thermal Coefficient of Expansion (20-300°C) = 32.5 x 10 ⁻⁷			
Chemical:	Hydrolytic Resistance	(ISO 719-HGB)	Class 1	
		(ISO 720-HGA)	Class 1	
	Alkali Resistance	(ISO 695-A)	Class 2	
	Acid Resistance	(ISO 1776)	Class 1	
Electrical:	Dielectric Constant	4.6		
	Dielectric Loss Factor	37 x 10 ⁻⁴		
	Dielectric Strength (Kv/mm thick)	16.6 @ 75°F	7.1 @ 300°F	1.8 @ 500°F

APPLICATIONS

Precision engineering, optical applications, home appliances, environmental technology, sewage treatment technology and lighting.