

*an SP Industries Company***TECHNICAL INFORMATION:
Borosilicate Glass Properties****BOROSILICATE GLASS PROPERTIES**

Unless otherwise specified, all WILMAD-LABGLASS technical glassware meets ASTM specification E438 for Type I, Class A borosilicate glass. Glassware is manufactured from PYREX[®] Glass Code 7740 or equivalent.

Major Physical Characteristics	Type I, Class A	PYREX[®]
Linear Coefficient of Expansion	$32-33 \times 10^{-7} \text{cm/cm}^{\circ}\text{C}$	$32.5 \times 10^{-7} \text{cm/cm}^{\circ}\text{C}$
Strain Point		510°C
Annealing Point	560°C ± 10°C	560°C
Softening Point	815-820°C ± 10°C	821°C
Density, annealed	2.23-2.24 ± 0.02 g/cm ³	2.23g/cm ³
Refractive Index		1.474 @ Sodium D Line
Temperature Limits		490°C (Extreme Service) 230°C (Normal Service)
Maximum Thermal Shock		160°C

Chemical Composition	Type I, Class A	PYREX[®]
SiO ₂	81%	80.6%
B ₂ O ₃	13%	13.0%
Na ₂ O	4%	4.0%
Al ₂ O ₃	2%	2.3%