

	Corning 7740 (Pyrex)	Kimble KG-33 (Kimax)	Schott 8330 Duran
Strain point	510°C	513°C	510°C
Annealing Point	560°C	565°C	560°C
Softening Point	821°C	827°C	815°C
Youngs Modulus	6.4 x 10 ³ nbsp;Kg/mm ²	9.5 x 10 ⁶ psi	63 x 10 ³ N/mm ²
Coefficient of Expansion>	32.5 x 10 ⁻⁷ cm/cm/°C*	32 x 10 ⁻⁷ in/in/ °C*	32.5 x 10 ⁻⁶ cm/cm/°K ⁻¹ *
Density	2.23 g/cm ³	2.23 gm/cm ³	2.23 g/cm ³
Refractive index	1.474 @ sodium D line	1.47 @ sodium D line	1.473
Temp Limits	490°C extreme short term; 230°C normal service	450°C short term; 230°C normal service	500°C short term; 230°C normal service
Thermal shock	160°C	180°C	160°C

*Data Source: Schott, Corning and Kimble Glass Companies

Typical Composition



SiO ₂ -	80-81%
B ₂ O ₃ -	13%
Na ₂ O -	4%
Al ₂ O ₃ -	2.3%
Misc traces -	.1%

Typical Extractables From Borosilicate Glass - PPM:

Si < 1, Al < 0.003, Na < 0.5, K < 0.05, Ca < 0.05, Mg < 0.05, Ba < 0.05, B < 1, Fe < 0.1

*data derived from Kimble-Kontes, Corning, Inc. and Schott Glaswerke documents

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