Mechanical Properties

	Corning Fused Quartz 7980	***Eagle x6 Fusion Drawn Boro-Alumino Silicat***	***Borofloat 33***	***Pyrex 7740***	***Quartz 6 E 124***
Density	2.20g/cm^3	2.38 g/cm^3	2.2 g/cm^3	2.23 g/cm^3	2.21g/cm^3
Poissons Ratio	0.16	.23	0.20	0.20	0.17
Young's Modulus	72.7 GPa	73.6 GPa	64 Kn/mm^2	64 x 10^3 Kg(f)/mm^2	70 GPa
	10.544 x 10^6 psi	10.675 x 10^6 psi	9.285 x 10^6 psi	9.102 x 10^6 psi	10.152 x 10^6 Psi
Bending Strength			25 MPa (RT)	69 MPa (RT)	80 MPa (RT)
			25,000,000 Pa	69,000,000 Pa	80,000,000 Pa
			3.63 x 10^3 psi	10.007 x 10^3 psi	11.603 x 10^3 psi
Thermal Exp.	5.5 x 10^{-7} /°C	31.7 x 10^{-7} cm/cm/°C	32.5 x 10^{-7} cm/cm/°C	32.5 10^{-7} cm/cm/°C	5.5 x 10^{-7}/°C
Chemical Comp.			SiO 81%, B^2O 13%, Na^2O/K^2O 4%, Al^2O^3 2%	Oxygen 54% Silicon Dioxide 38% Sodium 3% Aluminum 1%	

Note: 1 N = 102g(f), 6894Pa = 1 psi, Pyrex is Approximately 2-4 times stronger than Borofloat, Quartz is approximately 3.2 times stronger than Borofloat

Corning has stopped production of pyrex 7740 plates.