

Glass Type/Application	Laboratory glass drainline from borosilicate glass 3.3. Chemically highly resistant, high thermal shock resistance.		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion $\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ (ISO 7991) 3.3 10^{-6}K^{-1} Transformation temperature T_g (ISO 7884-8) 525 $^{\circ}\text{C}$ Glass temperature at viscosity η in dPa·s 10^{13} (annealing point) (ISO 7884-4) 560 $^{\circ}\text{C}$ $10^{7.6}$ (softening point) (ISO 7884-3) 825 $^{\circ}\text{C}$ 10^4 (working point) (ISO 7884-2) 1260 $^{\circ}\text{C}$ Stress-optical coefficient K (DIN 52314) 4.0 $10^{-6}\text{mm}^2\cdot\text{N}^{-1}$ Density ρ at 25°C 2.23 $\text{g}\cdot\text{cm}^{-3}$ Modulus of elasticity E (Young's modulus) 63 $10^3\text{N}\cdot\text{mm}^{-2}$ Poisson's ratio μ 0.2 Thermal conductivity λ_w at 90°C 1.2 $\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$ Log of the electric volume resistivity ($\Omega\cdot\text{cm}$) at 250°C 8.0 at 350°C 6.5 t_{k100} (DIN 52326) 250 $^{\circ}\text{C}$ Dielectric constant ϵ for 1 MHz at 25°C 4.6 Dielectric loss factor $\tan d$ for 1 MHz at 25°C 37 10^{-4} Refractive index n_d ($\lambda = 587.6\text{ nm}$) 1.473		
Chemical Resistance	Hydrolytic resistance (ISO 719) Class HGB 1 Acid resistance (DIN 12116) Class S1 Alkali resistance (ISO 695) Class A2 The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm.		