

GlassType/Application	Borosilicate glass 3.3 acc. to ISO 3585, chemically and thermally highly resistant General-purpose glass for apparatus for the chemical industry, for pipelines and lab glassware
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Physical Data	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 $\text{dPa}\cdot\text{s}$
	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} 250 $^{\circ}\text{C}$
	Dielectric constant ϵ for 1 MHz at 25°C 4.6
	Dielectric loss factor $\tan \delta$ 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 S 1
	Alkali resistance (ISO 695) Class A 2

	The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm
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