

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

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 $\text{dPa}\cdot\text{s}$		
	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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