

Glass 8532

Technical Data

GlassType/Application	Soft glass, free from Na, of high lead content, lower sealing temperature than glass 8531 Encapsulation of semiconductor components at low temperature (diodes)		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion $\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ (ISO 7991) 8.7 10^{-6}K^{-1} Transformation temperature T_g (ISO 7884-8)..... 435 $^{\circ}\text{C}$ Glass temperature at viscosity η in $\text{dPa}\cdot\text{s}$ 10^{13} (annealing point) (ISO 7884-4)..... 430 $^{\circ}\text{C}$ $10^{7.6}$ (softening point) (ISO 7884-3)..... 560 $^{\circ}\text{C}$ 10^4 (working point) (ISO 7884-2)..... 760 $^{\circ}\text{C}$ Stress-optical coefficient K (DIN 52314)..... 1.7 $10^{-6}\text{mm}^2\cdot\text{N}^{-1}$ Density ρ at 25°C 4.46 $\text{g}\cdot\text{cm}^{-3}$ Modulus of elasticity E (Young's modulus) 56 $10^3\text{N}\cdot\text{mm}^{-2}$ Poisson's ratio μ 0.24 Thermal conductivity λ_w at 90°C 0.7 $\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$ Log of the electric volume resistivity ($\Omega\cdot\text{cm}$) at 250°C 11.0 at 350°C 9.4 t_{k100} 440 $^{\circ}\text{C}$ Dielectric constant ε for 1 MHz at 25°C 10.2 Dielectric loss factor $\tan \delta$ for 1 MHz at 25°C 9 10^{-4} Refractive index n_d ($\lambda = 587.6 \text{ nm}$) 1.724		
Chemical Resistance	Hydrolytic resistance (ISO 719) Class HGB 1 Acid resistance (DIN 12116) Class S 4 Alkali resistance (ISO 695) Class A 3		