

DUROBAX[®] amber

Technical Data

Glass Type/Application	Neutral glass tubing, chemically highly resistant, with light protection. Containers, test tubes, pipettes, chemical and technical apparatus.		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion $\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ (ISO 7991) 5.4 10^{-6}K^{-1} Transformation temperature T_g (ISO 7884-8) 550 $^{\circ}\text{C}$ 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) 770 $^{\circ}\text{C}$ 10^4 (working point) (ISO 7884-2) 1165 $^{\circ}\text{C}$ Stress-optical coefficient K (DIN 52314) 2.2 $10^{-6}\text{mm}^2\cdot\text{N}^{-1}$ Density ρ at 25°C 2.42 $\text{g}\cdot\text{cm}^{-3}$ Modulus of elasticity E (Young's modulus) 71 $10^3\text{N}\cdot\text{mm}^{-2}$ Poisson's ratio μ 0.19 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 7.1 at 350°C 5.6 t_{k100} (DIN 52326) 200 $^{\circ}\text{C}$ Dielectric constant ϵ for 1 MHz at 25°C 6.3 Dielectric loss factor $\tan d$ for 1 MHz at 25°C 107 10^{-4} Refractive index n_d ($\lambda = 587.6\text{ nm}$) 1.523		
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.		

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