

FIOLAX[®] clear

Technical Data

Glass Type/Application	Neutral glass tubing, chemically highly resistant. Pharmaceutical primary packaging.				
incl. Product Lines	Controlled Hydrolytic Resistance (CHR); Optimized Strength (OS); Best Value (BV)				
Physical Data (approx. value)	<p>Coefficient of mean linear thermal expansion</p> <p>$\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ (ISO 7991) 4.9 10^{-6}K^{-1}</p> <p>Transformation temperature T_g (ISO 7884-8) 565 $^{\circ}\text{C}$</p> <p>Glass temperature at viscosity η in dPa·s</p> <p>10^{13} (annealing point) (ISO 7884-4) 565 $^{\circ}\text{C}$</p> <p>$10^{7.6}$ (softening point) (ISO 7884-3) 785 $^{\circ}\text{C}$</p> <p>10^4 (working point) (ISO 7884-2) 1160 $^{\circ}\text{C}$</p> <p>Density ρ at 25°C 2.34 $\text{g} \cdot \text{cm}^{-3}$</p>				
Chemical Resistance	<p>Hydrolytic resistance</p> <p>acc. to ISO 719 Class HGB 1</p> <p>acc. to Ph. Eur. Type I</p> <p>acc. to USP Type I</p> <p>acc. to JP fulfilled</p> <p>Acid resistance (DIN 12116) Class S1</p> <p>Alkali resistance (ISO 695) Class A2</p> <p>ASTM E 438 Type I Class B</p>				
Chemical Content (components in approx. weight %)	SiO ₂	B ₂ O ₃	Al ₂ O ₃	Na ₂ O	CaO
	75	10.5	5	7	1.5
	The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm				
Transmission (exemplary spectrum)	<p>— 1.0 mm</p>				

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