

FIOLAX[®] amber

Technical Data

Glass Type/Application	Neutral glass tubing, chemically highly resistant, with light protection. Pharmaceutical primary packaging.								
Product Lines	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) 5.4 10^{-6}K^{-1}</p> <p>Transformation temperature T_g (ISO 7884-8) 550 $^{\circ}\text{C}$</p> <p>Glass temperature at viscosity η in dPa·s</p> <p>10^{13} (annealing point) (ISO 7884-4) 560 $^{\circ}\text{C}$</p> <p>$10^{7.6}$ (softening point) (ISO 7884-3) 770 $^{\circ}\text{C}$</p> <p>10^4 (working point) (ISO 7884-2) 1165 $^{\circ}\text{C}$</p> <p>Density ρ at 25°C 2.42 $\text{g} \cdot \text{cm}^{-3}$</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>								
Chemical Content (components in approx. weight %)	SiO ₂	B ₂ O ₃	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	Na ₂ O	K ₂ O	BaO	CaO
	70	7.5	6	1	5	6.5	1	2	<1
	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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