FIOLAX® amber

Technical Data

Glass Type/Application	Neutral glass tubing, chemically highly resistent, with light protection. Pharmaceutical primary packaging.
incl. Product Lines	Best Value (BV)

Physical Data (approx. value)

Coefficient of mean linear thermal expansion α(20°C; 300°C) (ISO 7991)	5.4	$10^{-6}K^{-1}$
Transformation temperature T_g (ISO 7884-8)	550	°C
Glass temperature at viscosity η in dPa·s		
10^{13} (annealing point) (ISO 7884-4)	560	°C
$10^{7.6}$ (softening point) (ISO 7884-3)	770	°C
10^{4} (working point) (ISO 7884-2)	1165	°C
Density ρ at 25°C	2.42	$g \cdot cm^{-3}$

Chemical Resistance

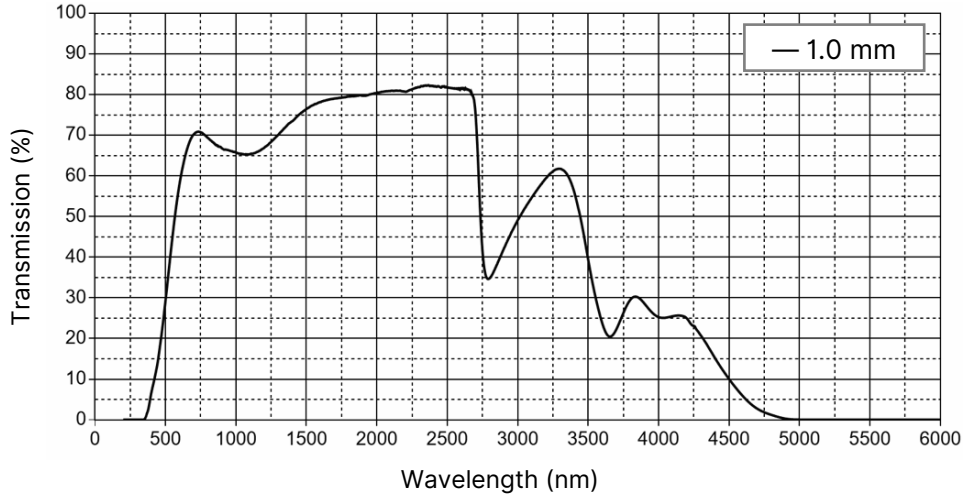
Hydrolytic resistance		
acc. to ISO 719	Class	HGB 1
acc. to Ph. Eur.	Type	I
acc. to USP	Type	I
acc. to JP	fulfilled	
Acid resistance (DIN 12116)	Class	S1
Alkali resistance (ISO 695)	Class	A2

Chemical Content (components in approx. weight %)

SiO_2	B_2O_3	Al_2O_3	Fe_2O_3	TiO_2	Na_2O	K_2O	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)



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Business Unit Tubing / 01/2025

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