FIOLAX® Pro

Technical Data

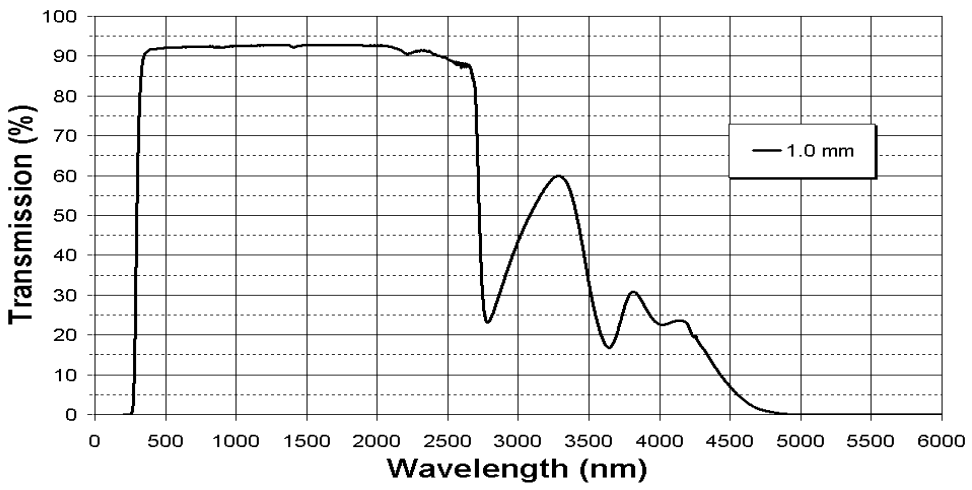
Glass Type/Application	Neutral glass tubing, chemically highly resistant Pharmaceutical primary packaging		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion		
	α(20°C; 300°C) acc. to ISO 7991	5.2	$\cdot 10^{-6} K^{-1}$
	Transformation Temperature T_g	560	°C
	Glass temperature at viscosity η in dPa · s		
	10^{13} (annealing point).....	570	°C
	$10^{7.6}$ (softening point)	775	°C
	10^{4} (working point)	1170	°C
	Density ρ at 25°C	2.32	$g \cdot cm^{-3}$
Chemical Data	Hydrolytic resistance		
	acc. to ISO 719	Class	HGB 1
	acc. to ISO 720	Class	HGA 1
	acc. to YBB00252003-2015	Type	I
	acc. to YBB00362004-2015	Class	HGB 1
	acc. to Ph. Eur.	Type	I
	acc. to USP.....	Type	I
	acc. to JP.....	fulfilled	
	Acid resistance (DIN 12116)	Class	S 1
	Alkali resistance (ISO 695)	Class	A 2
	ASTM E 438 ..... Type I	Class	B

Chemical Composition
(main components in approx. weight %)

SiO_2	B_2O_3	Al_2O_3	Na_2O	K_2O	CaO
73	11	7	7	< 1	< 1

The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm.

Transmission
(exemplary spectrum)



SCHOTT
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