AR-GLAS®

Technical Data

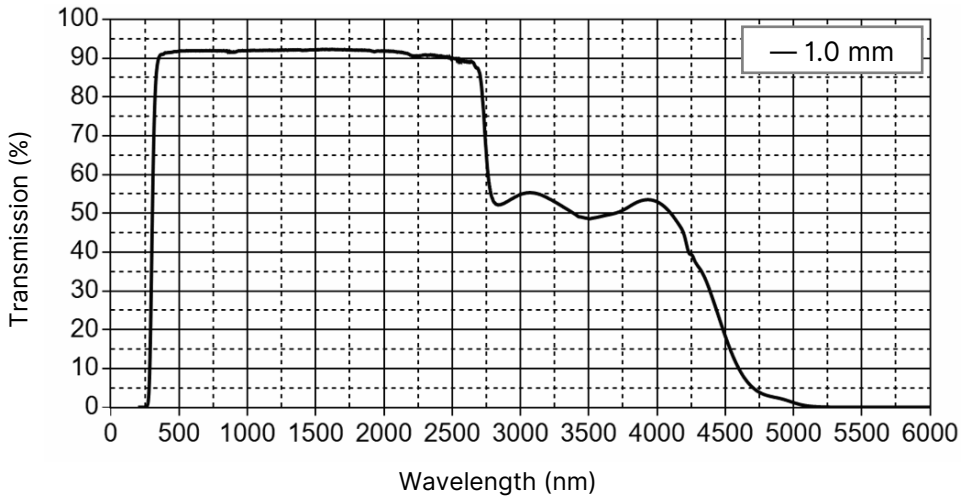
Glass Type/Application	Soda-Lime-Glass. Pharmaceutical primary packaging, general technical application.		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion α(20°C; 300°C) (ISO 7991)	9.1	$10^{-6}K^{-1}$
	Transformation temperature T_g (ISO 7884-8)	525	°C
	Glass temperature at viscosity η in dPa·s		
	10^{13} (annealing point) (ISO 7884-4)	530	°C
	$10^{7.6}$ (softening point) (ISO 7884-3)	720	°C
	10^{4} (working point) (ISO 7884-2)	1040	°C
	Density ρ at 25°C	2.50	$g \cdot cm^{-3}$
Chemical Resistance	Hydrolytic resistance		
	acc. to ISO 719	Class	HGB 3
	acc. to Ph. Eur.	Type	III
	acc. to USP	Type	III
	Acid resistance (DIN 12116)	Class	S1
	Alkali resistance (ISO 695)	Class	A2
	ASTM E 438	Type II	

Chemical Content
(components in approx. weight %)

SiO_2	B_2O_3	Al_2O_3	Na_2O	K_2O	BaO	CaO	MgO
69	1	4	13	3	2	5	3

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

Transmission
(exemplary spectrum)



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Bunsiness Unit Tubing / 07/2025

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