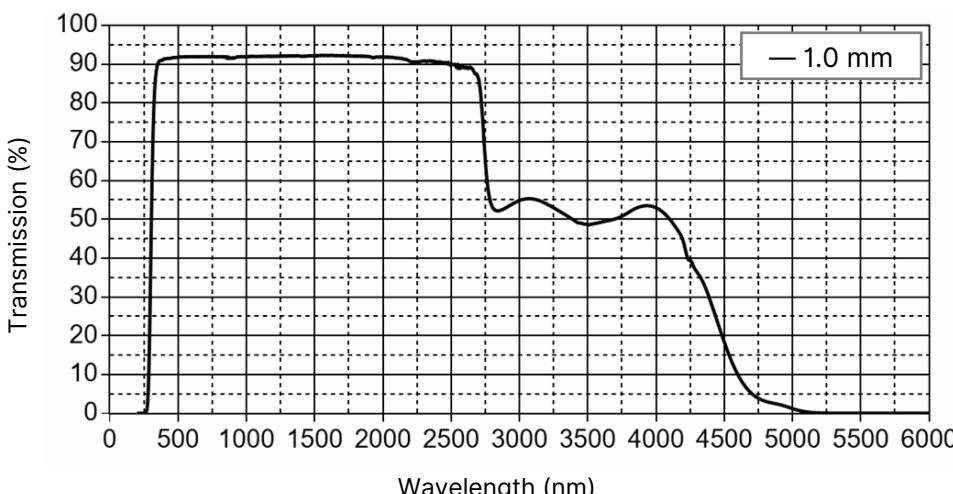


# AR-GLAS®

## Technical Data

Glass Type/Application	Soda-Lime-Glass. Pharmaceutical primary packaging, general technical application.							
Physical Data (approx. value)	Coefficient of mean linear thermal expansion $\alpha(20^\circ\text{C}; 300^\circ\text{C})$ (ISO 7991) ..... 9.1 $10^{-6}\text{K}^{-1}$ Transformation temperature $T_g$ (ISO 7884-8) ..... 525 $^\circ\text{C}$ Glass temperature at viscosity $\eta$ in dPa·s $10^{13}$ (annealing point) (ISO 7884-4) ..... 530 $^\circ\text{C}$ $10^{7.6}$ (softening point) (ISO 7884-3) ..... 720 $^\circ\text{C}$ $10^4$ (working point) (ISO 7884-2) ..... 1040 $^\circ\text{C}$ Density $\rho$ at 25°C ..... 2.50 $\text{g} \cdot \text{cm}^{-3}$							
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 <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	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)	 <p>The graph shows the transmission spectrum of the glass. The x-axis represents wavelength from 0 to 6000 nm, and the y-axis represents transmission percentage from 0 to 100%. The curve starts at approximately 90% transmission at 300 nm, remains relatively flat until about 2500 nm, then drops sharply to around 50% transmission between 2800 nm and 3200 nm. It then fluctuates between 40% and 55% transmission until about 4500 nm, after which it drops rapidly to near 0% transmission by 5000 nm.</p>							

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