

Glass Type/Application	Soda lime silicate glass Pharmaceutical primary packaging, general technical application							
Physical Data	Coefficient of mean linear thermal expansion $\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ acc. to ISO 7991 $9.1 \cdot 10^{-6}\text{K}^{-1}$							
	Transformation Temperature T_g 525 °C							
	Glass temperature at viscosity η in dPa · s							
	10^{13} (annealing point)..... 530 °C							
	$10^{7.6}$ (softening point) 720 °C							
	10^4 (working point) 1040 °C							
	Density ρ at 25°C $2.50 \text{ g} \cdot \text{cm}^{-3}$							
Chemical Data	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 S 1							
	Alkali resistance (ISO 695) Class A 2							
	ASTM E 438 Type II							
Chemical Composition (main components in approx. weight %)	SiO ₂	B ₂ O ₃	Al ₂ O ₃	Na ₂ O	K ₂ O	BaO	CaO	MgO
	69	1	4	13	3	2	5	3

