

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 $\text{dPa} \cdot \text{s}$	
	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	

