

Glass 8447

Technical Data

Glass Type/Application	Intermediate sealing glass Sealing to the glasses 8449, 8486, 8412, 8250, 8245 and Kovar
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Physical Data (approx. value)	Coefficient of mean linear thermal expansion $\alpha(20^\circ\text{C}; 300^\circ\text{C})$ (ISO 7991)	4.6	10^{-6}K^{-1}
	Transformation temperature T_g (ISO 7884-8).....	475	$^\circ\text{C}$
	Glass temperature at viscosity η in $\text{dPa} \cdot \text{s}$		
	10^{13} (annealing point) (ISO 7884-4).....	505	$^\circ\text{C}$
	$10^{7.6}$ (softening point) (ISO 7884-3).....	720	$^\circ\text{C}$
	10^4 (working point) (ISO 7884-2).....	1045	$^\circ\text{C}$
	Stress-optical coefficient K (DIN 52314).....	-	$10^{-6}\text{mm}^2 \cdot \text{N}^{-1}$
	Density ρ at 25°C	2.26	$\text{g} \cdot \text{cm}^{-3}$
	Modulus of elasticity E (Young's modulus)	-	$10^3\text{N} \cdot \text{mm}^{-2}$
	Poisson's ratio μ	-	
	Thermal conductivity λ_w at 90°C	-	$\text{W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$
	Log of the electric volume resistivity ($\Omega \cdot \text{cm}$)		
	at 250°C	-	
	at 350°C	-	
	t_{k100}	270	$^\circ\text{C}$
	Dielectric constant ϵ for 1 MHz at 25°C	-	
	Dielectric loss factor $\tan \delta$ for 1 MHz at 25°C	-	10^{-4}
	Refractive index n_d ($\lambda = 587.6 \text{ nm}$)	1.478	

Chemical Resistance	Hydrolytic resistance (ISO 719)	Class	HGB 4
	Acid resistance (DIN 12116)	Class	-
	Alkali resistance (ISO 695)	Class	-