Glass 8337B

Technical Data

GlassType/Application	Borosilicate glass for sealing to KOVAR metal and tungsten, highly UV-transmitting Photomultiplier and UV detectors		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion		
	α(20°C; 300°C) (ISO 7991)	4.1	$10^{-6}K^{-1}$
	Transformation temperature T_g (ISO 7884-8).....	440	°C
	Glass temperature at viscosity η in dPa·s		
	10^{13} (annealing point) (ISO 7884-4).....	465	°C
	$10^{7.6}$ (softening point) (ISO 7884-3).....	705	°C
	10^{4} (working point) (ISO 7884-2).....	1085	°C
	Stress-optical coefficient K (DIN 52314).....	4.1	$10^{-6}mm^2 \cdot N^{-1}$
	Density ρ at 25°C	2.22	$g \cdot cm^{-3}$
	Modulus of elasticity E (Young's modulus)	51	$10^3 N \cdot mm^{-2}$
	Poisson's ratio μ	0.22	
	Thermal conductivity λ_w at 90°C	1.0	$W \cdot m^{-1} \cdot K^{-1}$
	Log of the electric volume resistivity ($\Omega \cdot$cm)		
	at 250°C	9.2	
	at 350°C	7.5	
	t_{k100}	315	°C
	Dielectric constant ε for 1 MHz at 25°C	4.7	
	Dielectric loss factor tan δ for 1 MHz at 25°C	22	10^{-4}
	Refractive index n_d (λ = 587.6 nm)	1.476	
Chemical Resistance	Hydrolytic resistance (ISO 719)	Class	HGB 3
	Acid resistance (DIN 12116)	Class	S 4
	Alkali resistance (ISO 695)	Class	A 3
	The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm		

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