

DUROBAX[®]-clear

Technical Data

GlassType/Application Neutral glass tubing, chemically highly resistant
Syringes, cartridges, chemical and technical apparatus

Physical Data			
Coefficient of mean linear thermal expansion α (20°C;300°C) acc. to ISO 7991	4,9	$10^{-6}K^{-1}$	
Transformation temperature T_g	565	°C	
Glass temperature at viscosity η in dPa·s			
10^{13} (annealing point).....	565	°C	
$10^{7.6}$ (softening point).....	785	°C	
10^4 (working point).....	1165	°C	
Stress-optical coefficient K	3,4	$10^{-6}mm^2 \cdot N^{-1}$	
Density ρ at 25°C	2,34	$g \cdot cm^{-3}$	
Modulus of elasticity E (Young's modulus)	73	$10^3N \cdot mm^{-2}$	
Poisson's ratio μ	0,2		
Thermal conductivity λ_w at 90°C	1,2	$W \cdot m^{-1} \cdot K^{-1}$	
Log of the electric volume resistivity ($\Omega \cdot cm$)			
at 250°C	7,4		
at 350°C	6,0		
t_{k100}	215	°C	
Dielectric constant ϵ for 1 MHz at 25°C	5,7		
Dielectric loss factor $\tan \delta$ for 1 MHz at 25°C	80	10^{-4}	
Refractive index n_d ($\lambda = 587.6$ nm)	1,492		

Chemical Resistance			
Hydrolytic resistance (ISO 719)	Class	HGB 1	
Acid resistance (DIN 12116)	Class	S 1	
Alkali resistance (ISO 695)	Class	A 2	

The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm

SCHOTT
glass made of ideas