

## Qingdao Kangdeli Industrial And Trading Co., LTD.

Borosilicate Glass Properties						
				Metric	US	
Coefficient of mean linear thermal expansion $\alpha$ acc. to DIN ISO 7991				3.3 · 10 <sup>-6</sup> K <sup>-1</sup> (20 °C; 300 °C)	3.3 · 10 <sup>-6</sup> K <sup>-1</sup> (68 °F; 572 °F)	
Transformation temperature T <sub>g</sub>				525 °C	977 °F	
Density $\rho$ at 25 °C				2.23 g · cm <sup>-3</sup>	139.2 lb · ft <sup>-3</sup>	
Modulus of elasticity E (Young's modulus)				63 · 10 <sup>3</sup> N · mm <sup>-2</sup>	91 · 10 <sup>5</sup> lb · in <sup>-2</sup> (psi)	
Poisson's ratio $\mu$				0.2	0.2	
Thermal conductivity $\lambda_w$ at 90 °C				1.2 W · m <sup>-1</sup> · K <sup>-1</sup>	0.69 Btu · hr <sup>-1</sup> · ft <sup>-1</sup> · °F <sup>-1</sup>	
Refractive index ( $\lambda = 587.6$ nm) $n_d$				1.473	1.473	
Stress-optical coefficient (DIN 52 314) K				4.0 · 10 <sup>-6</sup> mm <sup>2</sup> · N <sup>-1</sup>	4.0 · 10 <sup>-6</sup> mm <sup>2</sup> · N <sup>-1</sup>	
Chemical Composition				Chemical Resistance		
SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O+K <sub>2</sub> O	Al <sub>2</sub> O <sub>3</sub>	Hydrolytic Class (DIN ISO 719)		HGB 1
81	13	4	2	Acid Class (DIN 12116)		Class S 1
				Alkali Class (DIN ISO 695)		Class A 2

