

## BOROSILICATE FLOAT GLASS 3.3

Technical Data:

<b>III. Performance of the Product</b>	
<b>1). Mechanical Performance</b>	
Density $\rho$	$2.23 \pm 0.02 \text{g/cm}^3$
<b>2). Thermodynamic Performance</b>	
Thermal expansion coefficient	(0-300) $3.3 \pm 0.1 \times 10^{-6} \text{K}^{-1}$
Softening point	$820 \pm 10$
Strain point	$516 \pm 10$
Caloricity	(20-100) $0.82 \text{KJ} \times (\text{kg} \times \text{K})^{-1}$
Thermal coefficient	$1.2 \text{W} \times \text{m} \times \text{K}^{-1}$
Thermal shock resistance	180K
Strengthening type	300K
Identical temperature difference	100K
Strengthening type	300 K
Maximum working temperature Short time(<10h):	500
Long time(>10h):	450
<b>3). Chemical Performance</b>	
Water resistance	ISO719/DIN12111 HGB1/ISO720 HGA1
Acid resistance	ISO1776/DIN12116 1
Alkali resistance	ISO695/DIN52322 A2
<b>4). Optical Property</b>	
Refractive index $N_d$ :	1.47384
Transmittance spectrum curve	
<b>5). Electrical Property</b>	
Specific resistance $\lg\rho$	$8.0 \Omega \times \text{cm}$ at 250
Dielectric dissipation fraction $\tan \sigma$ (1 megacycle at 20):	$38 \times 10^{-4}$
Dielectric constant	$\epsilon=4.7$