

## Corning Pyrex® 7740 Borosilicate Glass

Category : Ceramic , Glass , Optical , Oxide , Silicon Oxide

### Material Notes:

Pyrex® sheet provides unique chemical, thermal, mechanical, and optical properties. Available in thicknesses from 3/32 inches to 2.25 inches. Tempering increases temperature and pressure capability. Available as polished and machined glass wafers for use in the MST/MEMS (Micro Systems Technology/Micro-Electrical-Mechanical Systems) technologies. Also available in as powdered/crushed in mesh sizes 4 through 325 and is used for sealing and other applications. Information provided by Corning Incorporated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Corning-Pyrex-7740-Borosilicate-Glass.php](http://www.lookpolymers.com/polymer_Corning-Pyrex-7740-Borosilicate-Glass.php)

Physical Properties	Metric	English	Comments
Density	2.23 g/cc	0.0806 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	418	418	
Modulus of Elasticity	62.75 GPa	9101 ksi	
Poissons Ratio	0.20	0.20	
Shear Modulus	26.1 GPa	3790 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	3.25 µm/m-°C @Temperature 0.000 - 300 °C	1.81 µin/in-°F @Temperature 32.0 - 572 °F	
Softening Point	821 °C	1510 °F	10 <sup>&gt;7.6&lt;/sup&gt; Poise</sup>
Working Point	1252 °C	2286 °F	10 <sup>&gt;4&lt;/sup&gt; Poise</sup>
Annealing Point	560 °C	1040 °F	10 <sup>&gt;13&lt;/sup&gt; Poise</sup>
Strain Point	510 °C	950 °F	10 <sup>&gt;14&lt;/sup&gt; Poise</sup>

Optical Properties	Metric	English	Comments
Refractive Index	1.474 @Wavelength 589.3 nm	1.474 @Wavelength 589.3 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+9 ohm-cm	1.20e+9 ohm-cm	

Electrical Properties	@Temperature 350 °C Metric	@Temperature 662 °F English	Comments
	1.60e+11 ohm-cm	1.60e+11 ohm-cm	
	@Temperature 250 °C	@Temperature 482 °F	
Dielectric Constant	4.1	4.1	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China