

# Borosilicate Glass Tube

**Formula:** SiO<sub>2</sub> 81% / B<sub>2</sub>O<sub>3</sub> 13% / Na<sub>2</sub>O 4%

**Outside Diameter:** 4mm

**Wall Thickness:** 1.6mm

**Inside Diameter:** 0.8mm

**Length:** 30mm

**Type:** As-cut

**UOM Code:** 009-269-40

**SKU:** 1000001293-group

**Product Code:** SI81-TB-000168

## Material Properties for Glasses

### Chemical Resistance

Element	Value
Acids - concentrated	0
Acids - dilute	0
Alkalis	0
Halogens	0
Metals	0

### Electrical Properties

Element	Value
Dielectric constant	0
Dielectric strength( kV mm <sup>-1</sup> )	0
Volume resistivity( Ohmcm )	0

### Mechanical Properties

Element	Value
Poisson's ratio	0
Tensile modulus( GPa )	0
Hardness - Knoop( kgf mm <sup>-2</sup> )	0
Hardness - Vickers( kgf mm <sup>-2</sup> )	0
Shear strength( MPa )	0

<b>Element</b>	<b>Value</b>
Tensile strength( MPa )	0
Fracture toughness( MPam(0.5) )	0

### **Physical Properties**

<b>Element</b>	<b>Value</b>
Refractive index	0
Useful optical transmission range	0
Apparent porosity( % )	0
Water absorption - saturation( % )	0
Density( gcm <sup>3</sup> )	2.23

### **Thermal Properties**

<b>Element</b>	<b>Value</b>
Melting point( C )	0
Sublimation point( C )	0
Upper continuous use temperature( C )	0
Specific heat( J K <sup>-1</sup> kg <sup>-1</sup> )	0
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	0
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	0

### **Pultrusions**

<b>Element</b>	<b>Value</b>
Compressive strength( MPa )	0