

## GS11B Technical Data Sheet

### **Description and Applications**

Evergreen Plastic's Tenopex®PC GS11B is an extruded black polished / polished polycarbonate with good dimensional stability, heat resistance and mechanical properties. The typical application of GS11B includes printing, forming, insulation, label nameplates, membrane switches, automotive instrument clusters, and sporting helmets as well as remote control car bodies. GS11B is available in thicknesses ranging from 0.375mm to 1.5mm in both roll and sheet form.

### **Typical Property Values**

Property	Test Method	Units	Value
<b>Physical</b>			
Density	ASTM D792	g/cm <sup>3</sup>	1.2
Water Absorption, 24hrs	ASTM D570	%	0.35
<b>Optical</b>			
Light Transmission	ASTM D1003	%	18
<b>Mechanical</b>			
Tensile Strength	ASTM D882	MPa	≥60
Tensile Elongation at Break	ASTM D882	%	130-150
Young Modulus	ASTM D882	MPa	≥2100
Impact Strength (0.76mm)	ISO 6603-1	KJ/m <sup>2</sup>	≥28
<b>Thermal</b>			
Heat Deflection Temperature at 1.82Mpa	ASTM D648	°C	135
Coefficient of Thermal Expansion	ASTM D696	10 <sup>-5</sup> /°C	7
Coefficient of Thermal Exchange	ASTM C177	W/m.°C	0.19

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Shrinkage at 150°C	ASTM D1204	%	1.4
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### Electrical

Dielectric Strength	ASTM D149	V	1800
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Surface Resistivity	ASTM D257	Ω/square	10 <sup>15</sup>
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Volume Resistivity	ASTM D257	Ω.cm	10 <sup>16</sup>
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### UL Flammability

Film thickness ≥ 0.375mm	UL94		V-2
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### Manufacturing Gauge Specifications

Nominal Gauge Ranges	Min/Max Tolerances of Nominal
0.375mm	+/- 7%
0.5mm - 1.0mm	+/- 5%

These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local sales representative. Reported values are based on 0.250 mm thickness film unless otherwise noted.

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