



*The Plastic Films Specialist*

## GS71 Technical Data Sheet

### **Description and Applications**

Tenopex®PC GS71 is an extruded natural clear polycarbonate film which is one side brushed and the other side polished. It offers great printability, dimensional stability, heat resistance and mechanical properties. Common applications include printing and display applications such as overlays, labels and in-mould decorations. The brushed first surface of the film allows processors and OEMs to achieve a brushed metal appearance by back printing, laminating, spraying with metallic inks and so on.

### **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	%	89-91
Haze	ASTM D1003	%	70
<b>Mechanical</b>			
Tensile Strength	ASTM D882	MPa	≥60
Tensile Elongation at Break	ASTM D882	%	100-150
Young's Modulus	ASTM D882	MPa	≥2100
Impact Strength(0.76mm)	ISO6603-1	J	31
<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
Shrinkage at 150°C	ASTM D1204	%	1.4



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### Electrical

Dielectric Strength	ASTM D149	V	17000
Surface Resistivity	ASTM D257	$\Omega$ /square	$10^{15}$
Volume Resistivity	ASTM D257	$\Omega$ .cm	$10^{16}$

### UL Flammability

Film thickness $\leq$ 0.25mm	UL94	VTM-2
Film thickness $\geq$ 0.375mm	UL94	V-2

### Manufacturing Gauge Specifications

Nominal Gauge Ranges	Min/Max Tolerances of Nominal
0.25mm - 0.375mm	+/- 7%
0.5mm-0.76mm	+/- 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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