

**PRODUCT DATA SHEET**

Product Code: PC175GC927, PC175GC1220610, PC250GC927, PC250GC1220610, PC375GC1220610

Issued July 2017

**Technical Data Sheet  
Gloss Clear Polycarbonate**

**Description and Applications**

This is an extruded polished / polished polycarbonate film, comprising excellent mechanical and optical properties. It offers excellent transparency, high temperature resistance, good dimensional stability with ease of processing for thermoforming, die cutting, embossing, bonding and bending. These films are commonly used for printing, thermoforming, and surface coating. Typical applications include panel nameplates, membrane touch switches, labels, automotive instrument panels, light guide films, sporting helmets, toy car bodies and security cards. The film offers good printability without pre-treatment, making it also suitable for multi-layer printing applications like overlays and in-mold decorations. Specific product applications requiring additional UV stability are also available.

**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	%	< 1
<b>Mechanical</b>			
Tensile Strength	ASTM D882	MPa	≥ 60
Tensile Elongation at Break	ASTM D882	%	100 - 150
Young Modulus	ASTM D882	MPa	≥ 2100
Impact Strength (0.76mm)	ASTM D256	ft-lb	23



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Property	Test Method	Units	Value
<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 D117	W/m.°C	0.19
Vicat Softening Temperature, B	ASTM 1525-00 Mod	°C	150
<b>Electrical</b>			
Dielectric Strength	ASTM D149	V/mil	1700
Surface Resistivity	ASTM D257	Ω/square	>10 <sup>15</sup>
Volume Resistivity	ASTM D257	Ω.cm	≥10 <sup>16</sup>
<b>UL Flammability</b>			
Film thickness ≤ 0.25mm	UL94		
Film thickness = 1mm	UL94		

**Manufacturing Gauge Specifications**

Nominal Gauge Ranges	Min/Max Tolerances of Nominal
0.125mm - 0.175mm	+/- 10%
0.25mm - 0.375mm	+/- 7%
0.5mm - 1.0mm	+/- 5%



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

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