

# LONGHUA<sup>®</sup> PC-811 FILM

High Clarity, Glossy Grade

## Description:

Longhua<sup>®</sup> PC-811 **high clarity** film is a polished/polished film with low stress, excellent clarity, high temperature resistance and superior dimensional stability. The film grade, processed in a clean room environment, offers excellent light transmission. This makes them the ideal choice for LED/LCD windows and for applications where second surface printing is desirable, such as fascia panels for household appliances, audio/video equipment and automotive dials. Longhua<sup>®</sup> PC-811 films with surface polished can be embossed or selectively textured by screen printing & plating processing for aesthetic & optical purposes.



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## TYPICAL PROPERTY VALUES

PROPERTY	Test Method	Units	Value
<b>PHYSICAL</b>			
Specific Gravity	ASTM D 792	g/cm <sup>3</sup>	1.2
Light Transmission	ASTM D 1003	%	88 - 92
Haze	ASTM D 1003	%	< 1
Water Absorption Equilibrium, 24 HRS	ASTM D 570	%	0,35
<b>MECHANICAL</b>			
Tensile Strength	ASTM D 882	psi	8800
	ISO R 1184-1987	MPa	60
Elongation	ASTM D 882	%	>90
Impact Strength @ 30 mils	Gardner	In-Ibs	120
Tear Strength Propagation	ASTM D 1922	g/mil	>30
<b>THERMAL</b>			
Vicat Softening Temperature	ASTM D 1525	°C	135
<b>Electrical</b>			
Dielectric Strength (@10 mils)	ASTM D 149	V/mil	1700
Volume Resistivity @ 25°C, 50% RH	ASTM D 257	Ohm-cm	10 <sup>16</sup>
Surface Resistivity @ 25°C, 50% RH	ASTM D 257	Ω/□	10 <sup>15</sup>
<b>Flammability</b>			
UL Flammability	UL BULLETIN 94		
@ ≥ 0.250 mm		UL 94	V-2
@ < 0.250 mm		UL 94	VTM-2



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<b>Grade</b>	<b>Color</b>	<b>Texture</b>	<b>Thickness (mm)</b>	<b>Width* (mm)</b>	<b>Feature</b>
<b>LONGHUA<sup>®</sup> PC-811</b>	<b>Natural</b>	<b>Polished/Polished</b>	<b>0.100 ~1.500</b>	<b>930 &amp; 1230</b>	<b>High Clarity</b>

<b>PROPERTY</b>	<b>UNITS</b>	<b>LIMITS</b>
<b>Gauge Variation</b>	<b>%</b>	<b>&lt; 0,250 mm +/- 10% ≥ 0,250 mm +/- 5%</b>

\* Standard width, custom specific roll widths are possible, details on request

