

Longhua® PC-811 FILM

Description:

Longhua®PC-811 is a polished/polished film/sheets processed in clean room by using low-stress technique. Various defects on the surface can be detected, located & counted through On Line FlawsScan System. 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®PC-811 films with surface polished can be embossed or selectively textured by screen printing & plating processing for aesthetic & optical purposes

UL File Number E254551

Grade	Color	Texture	Thickness (mm)	Width (mm)	Versus other brands
Longhua® PC-811	Natural	Polished/Polished	0.100 – 1.500 (0.004” – 0.060”)	927 & 1230 (3’ & 4’)	8010 / DE 1-1

Typical Property Values

Property	Test Method	Units	Value
PHYSICAL			
Specific Gravity	ASTM D792	G/cm ³	1.2
Light Transmission	ASTM D1003	%	89~92
Haze	ASTM D1003	%	<1
Water Absorption Equilibrium, 24 hrs	ASTM D570	%	0.35
MECHANICAL			
Tensile Strength	ASTM D882 ISO R1184-1987	Psi Mpa	8,800 60
Elongation Ultimate	ASTM D882	%	>90
Impact Strength @ 10mils	JIS-K6745	In-lbs	120
Tear Strength Propagation	ASTM D1922	G/mil	>30
THERMAL			
Vicat Softening Temperature	ASTM D1525	°C	135
Strain Relief @ 135°C	ASTM D1204	%	<0.2
ELECTRICAL			
Dielectric Strength (@ 10mils)	ASTM D149	V/mil	1,700
Volume Resistivity @ 25°C, 50%RH	ASTM D257	Ohm-cm	10 ¹⁶
Surface Resistivity @ 25°C, 50%RH	ASTM D257	Ω/	10 ¹⁵
FLAMMABILITY			
UL Flammability	UL Bulletin 94		
@ ≥ 10mils		UL94	V-2
@ < 10mils		UL94	VTM-2

PROPERTY	UNITS	LIMITS
Gauge Variation	%	<0.250mm(0.010”) ± 10% ≥0.250mm(0.010”) ± 5%

****NOTE:** The above figures are typical values obtained under standard methods and should not be construed as guaranteed data under unsteady application conditions.