

Longhua® PC-1811 T/HC FILM

Description:

Longhua®PC- 1811 T/HC is high polished/polished film/sheets processed in 10,000 class clean room adopting low-stress technique. In order to effectively control varied defects, they can be detected, located through the On-Line Flaw Scanning System. With lower stress level and surface tension, combined with optical grade cling masking applied on both sides of PC, defects resulted from masking can be avoided dramatically. These make Longhua®PC-1811T/HC to be the ideal choice for LED/LCD windows and printing application, especially for coating and electro-plating field.

UL File Number E254551

Grade	Color	Texture	Thickness (mm)	Width (mm)	Versus other brands
Longhua® PC-1811 T/HC	Natural	Polished/Polished	0.100 – 1.500 (0.004” – 0.060”)	927 & 1230 (3’ & 4’)	1151 / NF2000

Typical Property Values

Property	Test Method	Units	Value
PHYSICAL			
Specific Gravity	ASTM D792	G/cm ³	1.2
Light Transmission	ASTM D1003	%	>89
Haze	ASTM D1003	%	<0.5
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.