

LONGHUA[®] PC-1811 FILM

High Optical Performance, Glossy Grade

Description:

Longhua[®] PC-1811 **high clarity** film is a superior optical grade for high quality printing applications. Visual film defects are automatically **counted and specified** by “on-line” flawscan system, Longhua[®] PC-1811 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[®] PC-1811 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
PHYSICAL			
Specific Gravity	ASTM D 792	g/cm ³	1.2
Light Transmission	ASTM D 1003	%	88 - 92
Haze	ASTM D 1003	%	< 1
Water Absorption Equilibrium, 24 HRS	ASTM D 570	%	0,35
MECHANICAL			
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
THERMAL			
Vicat Softening Temperature	ASTM D 1525	°C	135
Electrical			
Dielectric Strength (@10 mils)	ASTM D 149	V/mil	1700
Volume Resistivity @ 25°C, 50% RH	ASTM D 257	Ohm-cm	10 ¹⁶
Surface Resistivity @ 25°C, 50% RH	ASTM D 257	Ω/□	10 ¹⁵
Flammability			
UL Flammability	UL BULLETIN 94		
@ ≥ 0.250 mm		UL 94	V-2
@ < 0.250 mm		UL 94	VTM-2



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Grade	Color	Texture	Thickness (mm)	Width* (mm)	Feature
LONGHUA [®] PC-1811	Natural	Polished/Polished	0.100 ~ 1.000	930 & 1230	Superior Optical Grade

PROPERTY	UNITS	LIMITS
Gauge Variation	%	< 0,250 mm +/- 10% ≥ 0,250 mm +/- 5%

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

