

Longhua®PC-813,813F,815 FILM

Description:

Longhua® PC-813,813F,815 graphics films/sheets are available in diverse combinations of textures for customized design flexibility. These textures also offer mar resistance, and can be used over light-emitting devices (LEDs). Longhua®PC -813 is available in gauges down to .002" through the use of proprietary process technology.

UL File Number E254551

Grade	Color	Texture	Thickness (mm)	Width (mm)	Versus other brands
Longhua®PC-813	Natural	Polished/Matte	0.05 - 1.00 (0.002" - 0.040")	930 & 1230 (3' & 4')	8A13 / DE 1-4
Longhua®PC-813F		Polished/Fine matte	0.250 - 1.50 (0.007" - 0.060")		8A13F
Longhua®PC-815		Polished/Velvet			8A35 / PCVE

Typical Property Values

Property	Test Method	Units	Value
PHYSICAL			
Specific Gravity	ASTM D792	G/cm ³	1.2
Light Transmission	ASTM D1003	%	88~92
Water Absorption Equilibrium, 24 hrs	ASTM D570	%	0.35
MECHANICAL			
Tensile Strength	ASTM D882 ISO R1184-1987	Psi Mpa	8,500 >55
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.