

Longhua®PC-835, 835F, 832, 832F, 836 FILM

Description:

Longhua®PC -835, 835F, 832, 832F, 836 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). Low gloss levels are also available to reduce glare in office environments. Longhua®PC -835F & 832F are specifically designed to help eliminate pinholes in demanding backlit applications.

UL File Number E254551

Grade	Color	Texture	Thickness (mm)	Width (mm)	Versus other brands
Longhua®PC-835	Natural	Matte/velvet	0.05 - 1.00 (0.002" - 0.040")	927 & 1230 (3' & 4')	8B35 / PCVM
Longhua®PC-832		Matte/fine velvet			DE 7-2 DE 6-2
Longhua®PC-836		Matte/suede			8B36 / PCSM
Longhua®PC-835F		Fine matte/velvet	0.175 - 1.50 (0.007" - 0.060")		8B 35F
Longhua®PC-832F		Fine matte/fine velvet	—		

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.