

# LONGHUA<sup>®</sup> PC-870 / 770F FILM

## Flame-Retardant Grades

### Description:

Longhua<sup>®</sup> PC-870 / 770F are black opaque and both sides textured film grades. They meet to the ROHS directive and have UL 94 listing.

Longhua<sup>®</sup> PC-870 is a special superior environment friendly grade and offers good appearance with high quality and is designed to be used for panel printing purposes with flame retardant requirement.

**Possible applications:** Longhua<sup>®</sup> PC-870 / 770F are widely used in power supply insulation, TV/monitor insulation, business equipment insulation & foil laminated for insulation and shielding.

UL File Number: E254551



# LONGHUA<sup>®</sup> PC-870 / 770F FILM

## TYPICAL PROPERTY VALUES

PROPERTY	Test Method	Units	Value
<b>PHYSICAL</b>			
Specific Gravity	ASTM D 792	g/cm <sup>3</sup>	1.32
Water Absorption Equilibrium, 24 HRS	ASTM D 570	%	0,35
<b>MECHANICAL</b>			
Tensile Strength	ASTM D 882	psi	7300
	ISO R 1184-1987	MPa	50
Elongation Ultimate	ASTM D 882	%	> 15
Impact Strength @ 30 mils	Gardner	In-Ibs	60
Tear Strength Propagation	ASTM D 1922	g/mil	> 30
<b>THERMAL</b>			
Vicat Softening Temperature	ASTM D 1525	°C	135
Strain Relief @ 135°C	ASTM 1204	%	< 1.0
<b>Electrical</b>			
Dielectric Strength (@ 10 mils)	ASTM D 149	V/mil	1300
Volume Resistivity @ 25°C, 50% RH	ASTM D 257	Ohm-cm	10 <sup>16</sup>
Surface Resistivity @ 25°C, 50% RH	ASTM D 257	Ω/□	10 <sup>15</sup>
<b>Flammability</b>			
UL Flammability	UL BULLETIN 94		
LONGHUA <sup>®</sup> PC-870 @ 0.10 – 1.0 mm		UL 94	V-0
LONGHUA <sup>®</sup> PC-770F @ 0.25 – 0.80 mm		UL 94	V-0
Oxygen Index@ 0.250 mm	ASTM D 2863	%	32



# LONGHUA<sup>®</sup> PC-870 / 770F FILM

Grade	Color	Texture	Thickness (mm)	Width* (mm)	VS Other Brands
LONGHUA <sup>®</sup> PC-870	Black	Fine matte / Velvet	0.075 – 1.500	930 & 1230	FR 700
LONGHUA <sup>®</sup> PC-770F			0.250 – 1.500		

Environment-Protection Index	LONGHUA <sup>®</sup> PC -870	LONGHUA <sup>®</sup> PC -770F
Hg	N.D (< 2 ppm)	N.D (< 2 ppm)
Cr (VI)	N.D (< 2 ppm)	N.D (< 2 ppm)
Cd	N.D (< 2 ppm)	N.D (< 2 ppm)
Pb	N.D (< 2 ppm)	N.D (< 2 ppm)
PBB	N.D (< 5 ppm)	≤ 300 ppm
PBDE	N.D (< 5 ppm)	≤ 300 ppm

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

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

