

LONGHUA[®] PC-860 / 770-60B,63B,65B FILM

Flame-Retardant Grades

Description:

Longhua[®] PC-860 / 770-60B, 63B, 65B are natural clear flame-retardant polycarbonate films. They are available in diverse combinations of textures for example with polished, matte or velvet film surface.

They meet to the ROHS directive and have UL 94 listing.

Longhua[®] PC-860 series are special superior environment friendly grades and offers nice clear natural colour and glossy consistency, which enable to use widely for deep colour printing on second surface with flame retardant requirement.

Possible applications: Longhua[®] PC-860 / 770-60B, 63B, 65B are widely used in power supply insulation, TV/monitor insulation, business equipment insulation & foil laminated for insulation and shielding.

UL File Number: E254551



LONGHUA[®] PC-860 / 770-60B,63B,65B FILM

TYPICAL PROPERTY VALUES

PROPERTY	Test Method	Units	Value
PHYSICAL			
Specific Gravity	ASTM D 792	g/cm ³	1.30
Light Transmission	ASTM D 1003	%	> 85
Water Absorption Equilibrium, 24 HRS	ASTM D 570	%	0,35
MECHANICAL			
Tensile Strength	ASTM D 882	psi	7300
	ISO R 1184-1987	MPa	> 50
Elongation Ultimate	ASTM D 882	%	> 25
Impact Strength @ 30 mils	Gardner	In-Ibs	60
Tear Strength Propagation	ASTM D 1922	g/mil	> 30
THERMAL			
Vicat Softening Temperature	ASTM D 1525	°C	135
Strain Relief @ 135°C	ASTM 1204	%	< 1.0
Electrical			
Dielectric Strength (@ 10 mils)	ASTM D 149	V/mil	1300
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		
LONGHUA [®] PC-860-60B,63B,65B @ 0.18 – 1.0 mm		UL 94	V-0
LONGHUA [®] PC-770-60B,63B,65B @ 0.13 – 1.0 mm		UL 94	V-0
Oxygen Index@ 0.250 mm	ASTM D 2863	%	32



LONGHUA[®] PC-860 / 770-60B,63B,65B FILM

Grade	Color	Texture	Thickness (mm)	Width* (mm)	VS Other Brands
LONGHUA [®] PC-770-60B LONGHUA [®] PC-860-60B	Natural	Polished/Polished	0.125 – 1.5	930 or 1230	FR 60
LONGHUA [®] PC-770-63B LONGHUA [®] PC-860-63B		Polished/Matte	0.125 – 1.00 0.05 – 1.00		FR 63 FR 63 / FR 83
LONGHUA [®] PC-770-65B LONGHUA [®] PC-860-65B		Matte /Velvet	0.125 – 1.00 0.05 –1.00		FR 65

Environment-Protection Index	LONGHUA [®] PC -860-60B,63B,65B	LONGHUA [®] PC -770-60B,63B,65B
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

