

LONGHUA[®] PC-870-83(B) / 770-83F FILM

Flame-Retardant Grades

Description:

Longhua[®] PC-870-83(B) / 770-83F are black colored flame-retardant film grades with polished / matte film surfaces.

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

Longhua[®] PC-870-83(B) 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[®] PC-870-83(B) / 770-83F 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-870-83(B) / 770-83F FILM

TYPICAL PROPERTY VALUES

PROPERTY	Test Method	Units	Value
PHYSICAL			
Specific Gravity	ASTM D 792	g/cm ³	1.32
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	%	> 20
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	1600
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-870-83(B) @ 0.05 – 0.20 mm		UL 94	VTM-0
LONGHUA [®] PC-770-83F @ 0.07 – 0.20 mm		UL 94	V-0
Oxygen Index@ 0.250 mm	ASTM D 2863	%	32



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Grade	Color	Texture	Thickness (mm)	Width* (mm)	VS Other Brands
LONGHUA [®] PC-870-83(B)	Black	Polished / Matte	0.050 – 0.200	930 & 1230	FR 83
LONGHUA [®] PC-770-83F			0.050 – 0.200		

Environment-Protection Index	LONGHUA [®] PC -870-83(B)	LONGHUA [®] PC -770-83F
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	%	+/- 10%

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

