

LONGHUA® PP – WT / BK FILM

Textured Grades

Description:

Longhua® PP – WT / BK grades are white or black colored flame-retardant improved polypropylene films and sheets.

They are available in diverse combinations of textures for customized design flexibility.

Longhua® **PP – WT / BK Films** meets the ROHS directive and also the UL requirements V-0 & VTM-0.

Possible applications: Insulation and shielding of electronic and electrical devices, e.g. power supply parts, TV/monitor parts, office equipment etc.



LONGHUA[®] PP – WT / BK FILM

TYPICAL PROPERTY VALUES

PROPERTY	Test Method	Units	Value
PHYSICAL			
Specific Gravity	ASTM D 792	g/cm ³	1.0
Water Absorption Equilibrium, 24 HRS	ASTM D 570	%	0,06
MECHANICAL			
Tensile Strength	ASTM D 882	psi	3000
	ISO R 1184-1987	MPa	> 20
Elongation Ultimate	ASTM D 882	%	100
Tear Strength Propagation	ASTM D 1922	g/mil	25
THERMAL			
Vicat Softening Temperature	ASTM D 1525	°C	108
Electrical			
Dielectric Breakdown Volts @ 0.125 mm	ASTM D 149	KV	11.0
@ 0.250 mm	ASTM D 149	KV	22.0
@ 0.425 mm	ASTM D 149	KV	25.0
@ 0.750 mm	ASTM D 149	KV	32.0
@ 1.00 mm	ASTM D 149	KV	38.0
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		
@ ≥ 0.375 mm		UL 94	V-0
@ < 0.375 mm		UL 94	V-0 & VTM-0



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Grade	Color	Texture	Thickness (mm)	Width* (mm)	Application
LONGHUA® PP-WT10	White	Matte/Velvet	0.125 – 0.300	610 & 1230	Electronic & Electrical Insulation
LONGHUA® PP-WT16	White	Fine Matte/Velvet	0.400 – 1.250		
LONGHUA® PP-BK 15F	Black	Matte /Velvet	0.125 – 0.250		
LONGHUA® PP-BK15	Black	Fine Matte/Velvet	0.400 – 1.500		

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

Environment-Protection Index	LONGHUA® PP-WT	LONGHUA® PP-WT
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 (< 50 ppm)	N.D (< 50 ppm)
PBB	N.D (< 5 ppm)	≤ 5 ppm
PBDE	N.D (< 5 ppm)	≤ 5 ppm

PROPERTY	UNITS	LIMITS
Gauge Variation	mm	0.125 – 0.380 ± 0.02 mm 0.430 – 0.450 + 0.04 mm/- 0.03 mm 0.760 – 1.00 mm ± 0.05 mm 1.500 mm ± 0.1 mm

