



Material Data Sheet

PC Film/Sheet Products

产品描述 Description:

FRPC700-ECO (Non-Halogen) is a black flame-resistant polycarbonate (PC) film. Accord with ROHS directive and has UL certificate. It is widely used in power supplies, TV/monitors, business computers as insulation and shielding. Compared with previous flame-resistant PC film, it has better mechanical properties, appearance, stable and uniform color. It is also widely used in power supplies, TV/monitors, business computers as insulation and shielding.

商品代码 Type	颜色 Color	表面纹理 Surface texture	厚度(mm) Thickness	宽度(mm) Width	性能 Feature
FRPC700-ECO(Non-Halogen)	黑色 Black	Velvet / Fine velvet or Polish/Matte Black	0.05~1.500 (0.002"~ 0.060")	930 (3')	Flammability VTM-0 & V-0

厚度公差 Thickness tolerance	单位 Unit	极限值 Limit
<0.250mm	%	±10%
≥0.250mm		±5%

物性表 Typical Property Table

特性 Property	测试方法 Test Method	单位 Unit	测试值 Test value
物理性 PHYSICAL			
比重 Specific Gravity	ASTM D792	g/cm ³	1.20 ~ 1.23
机械性 MECHANICAL			
伸张强度 Tensile Strength	ASTM D882	psi	7,300
	ISOR1184-1987	MPa	50
极限延伸率 Elongation at break	ASTM D882	%	>15
冲击强度 Impact Strength @ 30mils	JIS-K6745	In-lbs	60
撕裂强度 Tear Strength Propagation	ASTM D1922	g/mil	>30
耐温性 THERMAL			
维卡软化点 Vicat Softening Point 120 °C/hr, 10N load	ISO 306	°C	151
热传导 Thermal conductivity	ISO 22007-4:2008	W/(m x K)	0.2
电气性 ELECTRICAL			
介电强度 Dielectric Strength (@ 10mils)	ASTM D149	V/mil	1,700
体积绝缘 Volume Resistivity @25°C, 50%RH	ASTM D257	Ω·cm	10 ¹⁶
表面绝缘 Surface Resistivity @25°C, 50%RH	ASTM D257	Ω	10 ¹⁵
阻燃性 FLAMMABILITY			
UL 防火等级 UL Flammability @ ≥10 mils	SGS measure	UL94	V-0
	SGS measure	UL94	VTM-0

环保指标 Environment-Protection Index	FRPC700-ECO
汞 Hg	N.D
六价铬 Cr(VI)	N.D
镉 Cd	N.D
铅 Pb	N.D
多溴联苯 PBBs	N.D
多溴联苯醚 PBDEs	N.D
全氟辛酸磺酸 PFOS	N.D
全氟辛酸 (铵) PFOA	N.D

Note: The values in the typical property table are for reference only. For further requirements, please contact us.