

TECHNICAL DATA SHEET

Matte/Velvet FR Polycarbonate Film

ProductName & No: **FR42B**



Product Description

PolyLine FR42B is a black, one side fine matte, one side velvet flame-retardant polycarbonate film with a UL94 V-0 listing at 0.250 mm. This film has formability, excellent mechanical properties, good dimensional stability at high temperatures and a high flammability rating, making it good for applications such as power supply insulation, disc drive insulation, bus-bar insulation, TV/monitor insulation, PC board insulation, business equipment insulation and has insulation and EMI/RFI shielding when laminated with metal foil.

Product Datasheet

Item	Property	Value	Unit	Test Method
Physical	Density	1.32	g/cm ³	ISO 1183
	Haze	-	%	ASTM D1003
	Light Transmission	-	%	ASTM D1003
Mechanical	Tensile Strength	60	MPa	ISO 527
	Elongation	<50	%	ISO 527
	Bend Strength	91	MPa	ISO 178
	Tensile Modulus	2300	MPa	ISO 178
	Surface Tension	≥34	dyn/cm	Test Fluid
Electrical	Dielectric Constant	3	-	IEC60250
	Resistant Puncture Voltage	30	MV/mm	IEC60243
	Surface Resistivity	1.00E+16	Ω/square	IEC60093
	Volume Resistivity	1.00E+17	Ω-cm	IEC60093
Thermal	Coefficient of Thermal Expansion	5.8	x10 ⁻⁵ /°C	ISO 11359
	Thermal Conductivity Rate	0.2	W/(m*K)	ASTM D5470
	Thermal Shrinkage	0.5~0.7	%	ASTM D1204
	Tg	152	°C	ISO306
Flammability	Grade of Resistant Flame	V-0/VTM-0		UL 94

Tip: This test data is for reference only, not as an absolute application index.