

Westlake PES Film

Polyethersulfone
Westlake Plastics Company

Message:

PES film possesses a combination of properties such as high resistance to heat and combustibility, low smoke emission and transparency. These coupled with light weight, high tear initiation and propagation strength, dimensional stability, chemical resistance and thermoformability make the film particularly useful in electrical, aerospace, automotive, and mass transit industries.

Applications Include:

- Liquid crystal displays
- Radomes
- Magnet wire insulation
- Hot melt adhesives
- Flex circuitry
- High temperature labels

Advantages of PES Film:

- High heat deflection and continuous use temperature
- Exceptional tensile and flexural strength
- High dielectric strength
- Exceptional mechanical properties
- Dimensionally stable at varying temperatures
- Transparency
- Hydrolytically stable

General Information	
Features	Combustion Resistant
	Good Chemical Resistance
	Good Dimensional Stability
	Good Tear Strength
	High Heat Resistance
	High Tensile Strength
	Hydrolytically Stable
	Laser Markable
	Low Smoke Emission
Uses	Adhesives
	Aerospace Applications
	Automotive Applications
	Electrical/Electronic Applications
	Film
	Impregnation Applications
	Labels
Appearance	LCD Applications
Appearance	Clear/Transparent
Forms	Film
Processing Method	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.70	%	ASTM D570
Films	Nominal Value	Unit	Test Method
Tensile Strength - MD (Yield)	72.4	MPa	ASTM D882
Tensile Elongation - MD (Break)	52	%	ASTM D882
Flexural Modulus - MD	2550	MPa	ASTM D790
Area Factor	20000	in ² /lb/mil	
Tear Strength - prop	37.1	kN/m	ASTM D1004
Thermoforming Molding Temperature	270 to 280	°C	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	195	°C	ASTM D648
Continuous Use Temperature	180	°C	
Glass Transition Temperature	225	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Dielectric Strength (0.102 mm)	180	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.50		ASTM D150
Dissipation Factor (1 kHz)	0.011		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	38	%	ASTM D2863
Optical	Nominal Value	Unit	
Refractive Index	1.650		
Transmittance	91.0	%	

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