

Polyester Film Sheet is a versatile type of thin plastic sheet available by the metre. This product is most commonly used for electrical insulation applications though, thanks to its low price and outstanding physical attributes, it is also used in many other areas.



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Our Polyester Film is available in 9 different thicknesses and can be supplied by the lineal metre. Roll width is 1000mm (1 metre) wide.

Though it is very thin, Polyester Film does have excellent strength characteristics and resists tearing and/or stretching. It also has very good thermal stability and withstands most common chemicals and media. It is a solid film that will not absorb moisture or fluids.

Polyester Film Sheet can withstand continuous exposure to temperatures up to 150°C and has a melting point of 256°C.

Applications

- The manufacture of insulating shims, gaskets and seals.
- Main wall coil insulation for low to medium voltage electric motors.
- The manufacture of general insulation components, strips and spacers for all kinds of electronic devices.
- Economical plastic spacing shims.
- As a cable insulation wrap.
- Serving as a base film in metalizing applications.
- As a sacrificial mould release film.
- Making sails for model sail boats.
- Various other applications that require a tough, strong, thin plastic sheet that will withstand temperature or provide electrical insulation.

Technical Details

Colour	Transparent (Except 0.35mm / 0.014")
Thickness Tolerance	± 10%
Continuous Operating Temperature	150°C
Melting Point	256°C
Elongation at Break (0.25mm, IEC 674-2)	80%
Tensile Strength (0.25mm, IEC 674-2)	150 MPa (minimum)
Shrinkage (0.25mm, IEC 674-2)	3% (maximum)

Important

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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Thickness	mm	0.013	0.025	0.051	0.076	0.1	0.125	0.188	0.25	0.35
	Inches	0.0005"	0.001"	0.002"	0.003"	0.004"	0.005"	0.0075"	0.010"	0.014"
Volume Resistivity		$\geq 1.0 \times 10^{14}$								
Relative Dielectric Constant 50Hz		2.9 ~ 3.4								
Power Electric Strength @ 50Hz		≥ 174 V/ μ m	≥ 130 V/ μ m	≥ 206 V/ μ m	≥ 90 V/ μ m	≥ 75 V/ μ m	≥ 50 V/ μ m	≥ 60 V/ μ m	≥ 50 V/ μ m	
Dielectric Dissipation Factor @ 50Hz		$\leq 5.0 \times 10^{-3}$								
Breakdown Voltage	Average			7kV	9kV	11kV	12kV	16kV	18kV	
	Minimum			5kV	7kV	8kV	9kV	13kV	15kV	
Tear Strength Edgewise N / 20mm	Average			245	392	539	637	882	1029	
	Minimum			196	294	392	490	637	784	

Available Sizes

Polyester Film is available by the lineal metre from Swift Supplies in the following standard thicknesses.

- 0.013mm (0.0005")
- 0.025mm (0.001")
- 0.04mm (0.0015")
- 0.051mm (0.002")
- 0.076mm (0.003")
- 0.1mm (0.004")
- 0.13mm (0.005")
- 0.188mm (0.0075")
- 0.25mm (0.010")
- 0.3mm (0.012")
- 0.35mm (0.014")

Except for 0.35mm all thicknesses are transparent. 0.35mm is milky-white in colour.

Polyester Film can also be provided in cut pieces, slit rolls and many other custom fabricated options. These can all be made to suit your exact specifications. Please do not hesitate to contact us to discuss available options.

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