

FEATURES

- Polypropylene (PP) electrical insulating film
- Flame-retardant
- Moisture resistant
- Dielectric strength of 1460 kV
- Density of 1035kg/m³
- Length of 304 mm
- Width of 200 mm
- Thickness of 0.76mm
- Pack of five sheets of plastic film
- UL 94 V-0 certification, for fire safety
- Non-hygroscopic (moisture absorption < 0.1%)
- Excellent dielectric strength
- Superior score and folding ability
- Economical

Polypropylene Plastic Film, 304mm x 200mm x 0.76mm

RS Stock No.: 785-0811



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO's flame-retardant polypropylene plastic film offers a tough and reliable insulation solution for many industries. It's recognised by the world-leading safety tester, Underwriters Laboratories (UL), as safe for use in electrical systems.

Featuring excellent dielectric strength of 1460 kV/mm, this flexible plastic film provides effective electrical insulation. Its non-hygroscopic qualities mean it absorbs less than 0.1% of moisture. The electrical insulating film has a density of 1035 kg/m³ and displays resilient dielectric breakdown, helping to shield against electrical surges.

General Specifications

Material	Polypropylene
Colour	Natural and Black
Flame Retardant	V-0
Application	Electrical

Electrical Specifications

Dielectric Strength	1460kV/mm
Dielectric Breakdown	24,820V
Volume Resistivity	3.97 x 10 ¹⁵ Ω-cm
Dielectric Constant	2.30
Dissipation Factor	0.0019

Mechanical Specifications

Length	304mm
Width	200mm
Thickness	0.76mm
Density	1035kg/m ³
Tensile Strength	4400psi
Water Absorption	0.06%
Oxygen Index	29
Surface Energy	≥50Dynes/cm

Operation Environment Specifications

Heat Deflection Temperature At 66psi	121°C
Relative Thermal Index	115°C

Approvals

Compliance/Certifications	RoHS (Restriction of Hazardous Substances) Compliant, UL 94 V-0
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Tensile Yield	ASTM D-882	Machine Direction Transverse Direction	4400psi 3200psi
Density	ASTM D-792		1.035gm/cc
Flammability	UL 94		V-0
Oxygen Index	ASTM D-2863		29
Water Absorption	ASTM D-570	Change in weight	0.06%
Heat Deflection Temperature	ASTM D-648	At 66psi	121 ^o C
Relative Thermal Index	UL 746B	Electrical Mechanical Without Impact	115 ^o C 115 ^o C
Surface Energy	ASTM D-2578	Dynes/cm (as produced)	≥50
Dielectric Breakdown	ASTM D-149	Volts	24,820
Dielectric Strength	ASTM D-149	Volts/Mil	1460
Volume Resistivity	ASTM D-257	Ohm-cm	3.97 x 10 ¹⁵
Dielectric Constant	ASTM D-150		2.30
Dissipation Factor	ASTM D-150		0.0019
High Current Arc Ignition	UL 746A	Arcs to ignite	162
High Voltage Arc Tracking	UL 746A		0.0
Hot Wire Ignition	UL 746A	Seconds	9
Comparative Tracking Index	ASTM D-3638	Volts	600