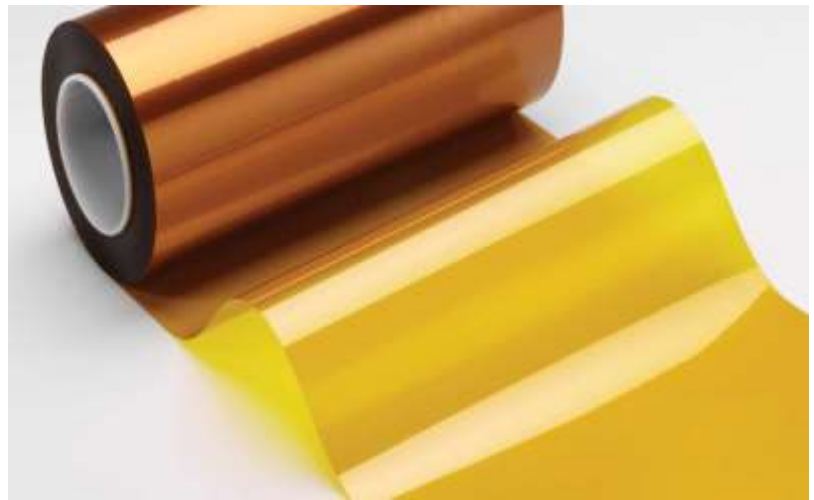


Features

- Operates effectively from -269°C (-452°F) up to +400°C (752°F) without losing its physical or electrical integrity.
- Excellent Electrical Insulation
- Low dissipation factor and high-volume resistivity ensure superior insulation performance.
- Dimensional Stability, Minimal shrinkage even after prolonged exposure to high temperatures.
- Chemical Resistance, Resistant to most solvents, oils, and chemicals, ensuring long-term reliability.
- Flame Retardant, Limiting Oxygen Index (LOI) of 37–45%, contributing to safety in high-temperature environments.
- Non-Melting, Maintains integrity even under thermal stress.

RS PRO POLYIMIDE FILM L:10M X W:610MM X T:0.075MM ROLL

RS Stock No.: 0731082



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

The RS PRO Polyimide Film is a high-performance insulation material engineered for demanding electrical, electronic, and mechanical applications. With a thickness of 0.075 mm (3 mil), width of 610 mm, and length of 10 m, this roll offers exceptional thermal stability, chemical resistance, and electrical insulation properties, making it ideal for environments where reliability under extreme conditions is critical.

Why Choose RS PRO Polyimide Film?

RS PRO delivers quality, reliability, and value. This polyimide film meets ASTM D-5213 Type 1, Item A standards and is trusted for its long-term performance in extreme environments. Whether you need insulation for aerospace, electronics, or industrial applications, this product ensures consistent results and safety compliance.

Applications

- *Electrical insulation for motors, transformers, and generators.*
- *Flexible printed circuits and electronics manufacturing.*
- *Aerospace and automotive components requiring thermal and chemical stability.*
- *High-temperature masking during soldering or powder coating.*
- *Cryogenic insulation for scientific and industrial applications.*

What are they used with?

- *Wire and cable insulation, used in aerospace, military, and industrial wiring.*
- *In electric vehicle batteries and sensors for insulation and protection.*
- *Motor, transformer, and capacitor insulation, withstands heat and maintains integrity under electrical stress*
- *In laboratories, used as tape or film for heat-resistant masking, chemical-resistant liners, or insulation barriers.*

General Specification

Material	Polyimide
Grade	300 HN
Finish	Amber / Golden Translucent Film
Roll Length	10,000MM
Width	610MM
Thickness	0.075MM
Density	~1.42 g/cm ³
Volume Resistivity	~1.5 × 10 ¹⁷ Ω·cm
Dielectric Strength	~201 kV/mm (5100 V/mil)
Operating Temperature Range	-269 °C to +400 °C

Mechanical Properties

Tensile Strength	33,500 psi (231 MPa) at 23°C
Elongation	65 - 68%
Coefficient of Friction	0.48 (kinetic), 0.63 (static)
Thermal Conductivity	0.20 W/m·K

Approvals

Compliance/Certifications	ASTM D-5213 (Type 1, Item A)
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