



PROFESSIONAL PLASTICS, INC.

Leading Global Supplier of Engineered Plastic Shapes

Kaptrex Polyimide Film

an economical alternative to DuPont Kapton® Polyimide Film

This high-performance polyimide film provides similar high performance solutions in many applications. Kaptrex PI film provides an excellent balance of electrical, mechanical, thermal, and chemical properties over a wide range of temperatures. Kaptrex polyimide film provides excellent electrical properties and resistance to high temperature and radiation. Kaptrex is suitable for insulation of "H" class (180°C or 356°F) electrical machines and appliances under working temperature of 200°C(392°F).

Availability: Thickness from .001" up to .005" - Widths: Standard Rolls are 24.5" wide

Features: Excellent Dielectric Strength, Excellent Dielectric Dissipation Factor, Wide Temperature Range, Chemical Resistance at Elevated Temperatures.

Applications: Wire Wrap Insulation & Tapes, Flexible Printed Circuits, Motor Slot Liners, Pressure Sensitive Tapes, Aerospace Shims, Formed Coil Insulation.

Kaptrex Polyimide Film Data Sheet

| Property | Unit | Value | |
|------------------------------------|---------------------|---------------------|---------|
| Density | g/cm ³ | ≥1.40 | |
| Tensile Strength | | | |
| Lengthwise | kgf/mm ² | ≥10.0 | |
| Crosswise | kgf/mm ² | ≥10.0 | |
| Elongation: | | | |
| Lengthwise | % | ≥25 | |
| Crosswise | % | ≥20 | |
| Breakdown Strength: | | Average | Minimum |
| ≥20±5°C, 50Hz | kV/mm | ≥100 | ≥60 |
| ≥200±5°C, 50Hz | kV/mm | ≥ 80 | ≥48 |
| Volume Resistivity: | | | |
| ≥20±5°C | Ω.cm | ≥1x10 ¹⁵ | |
| ≥200±5°C | Ω.cm | ≥1x10 ¹⁵ | |
| Coefficient of Surface Resistivity | Ω.cm | ≥1x10 ¹⁴ | |
| Dielectric Tangent | | ≤0.01 | |
| Loss Angle, 50Hz | | | |
| Dielectric Coefficient | | | |
| 50Hz | V/μm | ≤4.0 | |

Kaptrex is available exclusively from Professional Plastics, Inc. Data presented is typical rather than actual or minimum values. It is the customer's sole responsibility to determine the suitability of any material for their specific application by means of actual testing.

Nominal Thickness:

0.03mm±0.005mm

0.05mm±0.007mm

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Order Kaptrex Online:

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