



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Kapton® Polyimide Film

Kapton® Polyimide Film possesses a unique combination of properties previously unavailable among polymeric film materials. The ability of Kapton to maintain its excellent physical, electrical, and mechanical properties over a wide temperature range has opened new design and application areas to plastic films. It has proven especially useful in applications involving high operating temperatures.

The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

		Typical HN Film Thickness (mils)						Typical VN Film Thickness (mils)					
PROPERTIES	Units	0.30	0.50	1.00	2.00	3.00	5.00	0.30	0.50	1.00	2.00	3.00	5.00
PHYSICAL	Moisture Absorption	%	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
MECHANICAL	Tensile Strength: 23°C	PSA	16,000	20,000	20,000	24,000	24,000	20,000	20,000	20,000	20,000	20,000	20,000
	Tensile Strength: 23°C	MPa	110	138	138	165	165	138	138	138	138	138	138
	Elongation	%	25	35	40	45	50	35	35	45	50	60	60
	Shrinkage	%	4.0	4.0	2.5	2.5	2.5	0.1	0.1	0.1	0.05	0.05	0.05
ELECTRICAL	Dielectric Strength	V/mil	3,000	3,000	6,000	5,000	5,400	3,000	3,000	3,000	3,000	3,000	3,000
	Dielectric Strength	kV/mm	117	117	234	195	211	117	117	117	117	117	117
	Dielectric Constant: 1 kHz		4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	Dissipation Factor: 1 kHz		0.007	0.005	0.0036	0.0036	0.0036	0.0036	0.005	0.005	0.0036	0.0036	0.0036
	Volume Resistivity	Ohm-cm	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²

LAMINATE SHEETS: GAUGES

KAPTON TYPE HN

• 30 • 50 • 100 • 200 • 300 • 500

KAPTON TYPE VN

• 50 • 75 • 100 • 200 • 300 • 500

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.



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MARKETS



Switchgear



Electronics



Power Generators



Motor Applications



Transformers



Metals Processing



Electric Vehicles



Military/Aerospace



Oil & Gas



Medical



Space

OUR EXPERTISE IS YOUR COMPETITIVE ADVANTAGE

The Gund Company provides a wide range of material solutions from rigid, glass epoxy composites to high-temperature, silicone sponges.

We take a consultative approach to understanding your application by working with your engineers and buyers to find materials that fit the application. By understanding the most important material properties, we often find cost-reduction opportunities. Our Application Engineering Teams have decades of material experience and look forward to working with you on your upcoming project.

Material Families:

- Thermoset Rigid Laminates and Composites
- Flexible Laminates, Papers, Films, and Felts
- Thermoplastic Materials
- Elastomeric Materials

Our Manufacturing Capabilities Include:

- Compression Molding
- Pultrusion
- Filament & Convoluted Wound Tube
- Infusion & B-Stage Composites Lay-up and Molding
- Injection Molding
- Extrusion of Thermoplastics

Our Engineering Capabilities Include:

- Custom Material Development
- Resin Formulation
- Laboratory Testing
- Comparative Materials Evaluation



THE GUND COMPANY GLOBAL FOOTPRINT – LOCAL SERVICE

