

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Kapton™ Polyimide Film

	Item:	Kapton™ Polyimide Film					
Descri	iption:	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. Kapton has proven to be especially useful in applications involving high operating temperatures.					
	vailability:	Laminate Sheets - Gauges:	Kapton: Type HN	Kapton: Type VN			
Δvaila			30, 50, 100, 200, 300, 500	50, 75, 100, 200, 300, 500			
, teame		Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers.				

To at NA attack	Units English (SI)	Typical HN Film Thickness (mils)					
Test Method		.30	.50	1.00	2.00	3.00	5.00
Tensile Strength, 23°C	psi (MPa)	16,000 (110)	20,000 (138)	20,000 (138)	24,000 (165)	24,000 (165)	24,000 (165)
Elongation	%	25	35	40	45	50	50
Shrinkage	%	4.0	4.0	2.5	2.5	2.5	2.5
Moisture Absorption	%	4.0	4.0	4.0	4.0	4.0	4.0
Dielectric Strength	V/mil (kV/mm)	3,000 (117)	3,000 (117)	6,000 (234)	5,000 (195)	5,400 (211)	3,000 (117)
Volume Resistivity	Ohm x cm	1012	1012	1012	1012	1012	1012
Dielectric Constant, 1 kHz		4.0	4.0	3.9	3.9	3.9	3.9
Dissipation Factor, 1 kHz		0.007	0.005	0.0036	0.0036	0.0036	0.0036

To at NA attle and	Units English (SI)	Typical VN Film Thickness (mils)					
Test Method		.30	.50	1.00	2.00	3.00	5.00
Tensile Strength, 23°C	psi (MPa)	20,000 (138)	20,000 (138)	20,000 (138)	20,000 (138)	20,000 (138)	20,000 (138)
Elongation	%	35	35	45	50	60	60
Shrinkage	%	0.1	0.1	0.1	0.05	0.05	0.05
Moisture Absorption	%	4.0	4.0	4.0	4.0	4.0	4.0
Dielectric Strength	V/mil (kV/mm)	3,000 (117)	3,000 (117)	3,000 (117)	3,000 (117)	3,000 (117)	3,000 (117)
Volume Resistivity	Ohm x cm	1012	1012	1012	1012	1012	1012
Dielectric Constant, 1 kHz		3.9	3.9	3.9	3.9	3.9	3.9
Dissipation Factor, 1 kHz		0.005	0.005	0.0036	0.0036	0.0036	0.0036

AS9100 Certified QMS | ISO9001 Certified QMS | RoHS Compliant | ITAR Compliant

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