

THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	Nomex/Mylar/Nomex								
Description:	Nomex/Mylar/Nomex is a series of composites consisting of Type 416 Nomex® aramid paper bonded to both sides of mylar polyester film with a high-temperature adhesive system.								
Applications:	Primary ground insulation is rotating electrical apparatus operating at 180°C and above. It is especially well suited for slot cell applications in motors and generators the integral horsepower range where sheet insulation is normally used. Nomex/Mylar/Nomex may also be used as top sticks and wedges in select applications.								
Benefits:	The outer piles of the aramid paper provide smooth, abrasion-resistant surfaces for ease of insertion in slot cell and wedge applications. The excellent high-temperature capabilities on Nomex protects the polyester film from premature thermal degradation. Type 416 aramid paper exhibits good resistance to puncture and tear propagation, as well as outstanding hot cut-through resistance. The polyester film inner ply provides high dielectric strength for high pot safety, excellent resistance to tear initiation, and a high impact break strength to reduce the likelihood of splitting at slot overhangs. The composite structure blends the benefits of these engineering materials into a tough, flexible electrical insulation material, exhibiting the stiffness and snapback characteristics necessary in motor and generator applications								
	Thickness:	Total -	Composition (mils)						
Availability:			Nomex	Mylar	Nomex				
·		.009"	2	5	2				
		.010"	3	3	3				
		.012"	3	5	3				
		.014	5	3	5				
		.015	5	5	5				
		.016"	5	5	5				
		.020"	3	14	3				
		.020"	5	10	5				
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact drawings and specifications of our customers.							

Key Characteristics		.009"(3-3-3)	.010"(3-3-3)	.012" (3-5-3)	.014" (5-3-5)	.016" (5-5-5)	.020"(3-14-3)	.020"(5-10-5)
Dielectric Breakdown (ASTM D-149(V)		9,000	10,500	12,000	13,000	15,000	20,000	22,000
Tensile Strength (lbs/in width) (ASTM D-828)	MD	120	147	170	220	240	290	300
	CMD	90	103	130	158	185	270	280
Graves Tear Strength (lbs)	MD	10	14	16	26	28	37	40
	CMD	9	11	14	16	22	34	32