



MANUFACTURERS OF  
**ELECTRICAL INSULATION MATERIALS**  
 INSULATING COMPONENTS FOR  
 POWER SYSTEMS EQUIPMENT

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## MATERIAL DATA SHEET

- Item:** Rag/Mylar and Rag/Mylar/Rag
- Description:** Consists of 100% pure cotton rag paper and electric al grade polyester film. Laminated with a carefully selected adhesive system. Available in two or three ply combinations.
- Features:** MIL-I-19632 certified; high dielectric strength; heat stability; ease of fabrication and forming; good cut-through and tear resistance; saturable by varnishes and resins.
- Applications:** -Slot, phase, and top stick insulation motors and generators  
 -Ground, barrier, and layer insulation in dry-type transformers  
 -End turn in motors and generators  
 -Formed and fabricated part

Key Characteristics:	Units - English (SI)	RM 52	RM 72	RMR 525	RMR 727	RMR 10210
Nominal Thickness	In.(mm.)	0.007(0.18)	1.009(0.23)	0.012(0.30)	0.016(0.41)	0.022(0.56)
Tensile Strength:						
MD	Lbs per in. width	120	150	270	260	315
CMD	Lbs per in. width	75	90	140	150	195
Dielectric Strength	Volts	10,000	10,000	11,300	13,500	14,000
Graves Tear Strength:						
MD	Pounds	10	13	21	23	30
CMD	Pounds	8	11	16	18	26
Dielectric Constant	23°C, 50%RH 60Hz	3.6	3.8	3.8	3.5	3.8
Dissipation Factor	20°C, 50%RH 60Hz	.006	.006	.006	.006	.005
Volume Resistivity	23°C, 50%RH Ohm-cm.	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>
Surface Resistivity	Ohms	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>12</sup>

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