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64-534 T WE A Technical Data

Page 1

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Mailed to: E, D, C/2183/PL,DB

Flexible Composites

Cellulose Paper Composites

Rag Paper – Electrical grade rag papers are made from cotton fibers by a process expressly designed to produce a high density, uniform sheet. Because of their high density, these papers have excellent tear resistance and good electric strength. Electrical grade rag papers are available in gauges from .004" through .025".

Fish Paper – Fish paper is made from high quality rag paper by a chemical process using zinc chloride. It has a harder surface and is stiffer than ordinary rag paper. Fish paper has excellent forming qualities and good electric strength. It is available in gauges of from .004" to .030".

Kraft Paper – Kraft is a low cost electrical paper made from wood pulp. It is used in applications where high mechanical strength is not required.

Paper/Polyester Film – These composites are available in both two ply and three ply combinations. For general purpose applications, the composites are bonded with adhesives which have good solvent resistance and heat stability. For hermetic motors, the constructions are bonded with adhesives formulated to resist the effects of refrigerants.

Two ply combinations are normally used in small units where the optimum in space savings is desired. Three ply combinations of the paper/film/paper type are used in larger units where mechanical protection of the film is important and space is not critical. Three ply constructions of the film/paper/film type are used it specialized applications where moisture resistance and surface resistivity is of prime importance.

Product	Composite thickness ASTM Yield D374 Sq. Yds./ Lbs. roduct (Inches) Lb. Yd.			Dielectric Strength ASTM D149 (2 In. Dia. Electrodes) (Volts)	Volume Resistivity ① ASTM D257 (ohm/cm)	Surface Resistivity① ASTM D257 (ohms)			Tear Strength . Graves M.D. C.M.D (Lbs.)	
Rag/Polyes	ster Film									***************************************
RM-72 RM-101 RM-102 RM-152	0.009 0.011 0.012 0.017	1.67 1.38 1.23 0.91	0.60 0.72 0.81 1.10	9,000 6,500 9,000 12,000	10 ¹⁴ 10 ¹⁴ 10 ¹⁴ 10 ¹⁴	10 ¹² 10 ¹² 10 ¹³ 10 ¹²	148 170 194 291	105 90 127 147	10 12 14 22	8 10 11 18
Rag/Polyes	ster Film/F	Rag		>						
RMR-424 RMR-525 RMR-535 RMR-555 RMR-727 RMR-737 RMR-1021	0.011 0.013 0.014 0.016 0.017 0.018 0.0022	1.40 1.32 1.22 1.08 0.99 1.09 0.72	0.71 0.76 0.82 0.93 1.01 0.92 1.39	9,900 12,740 10,000 16,340 12,000 12,000 12,200	1014 1014 1014 1014 1014 1014 1014	1012 1012 1012 1012 1012 1012 1012	155 180 220 250 240 260 335	85 110 130 165 130 135 165	12 21 28 21 30 23 30	10 16 14 18 23 18 23
Polyester F	ilm/Rag/F	olyester	Film							
MRM-171 MRM-1101 MRM-1151		1.58 1.22 0.91	0.63 0.82 1.10	9,500 9,700 12,500	1014 1014 1014	10 ¹² 10 ¹² 10 ¹²	156 175 302	75 106 145	25 15	61 11

Values obtained were greater than values shown.

This Company has no control over the final application of the product by others, therefore, the information contained herein is intended as a general guide to product use and should not be construed as a warranty.