

WS Hampshire
Over 100 Years of Non-Metallic Material Fabrication
[DMD 70, DMD 100, DMD 180 Material Specification Sheet](#)

Table A: DMD 70

Product	Composite Thickness	Yield Yds ² /Lb	Dielectric Strength (Volts)	Volume Resistivity (Ohms/cm)	Tensile Strength (Lb/In)	CMD	Tear Strength Graves MD(Lbs)	CMD
222	.006	3.57	6,500	10 ¹⁵	85	70	6	4
313	.007	3.13	5,300	10 ¹⁵	85	40	9	8
323	.008	2.56	6,700	10 ¹⁵	100	75	16	6
333	.009	2.17	9,000	10 ¹⁵	110	80	13	8
353	.011	1.69	11,900	10 ¹⁵	130	127	19	13
3-7½-3	.013	1.35	16,600	10 ¹⁵	206	222	20	16
3-103	.016	1.13	19,000	10 ¹⁵	215	220	30	24
555	.015	1.49	11,000	10 ¹⁵	131	140	21	14

Table B: DMD 100

Product	Composite Thickness	Yield Yds ² /Lb	Lbs/Yds ²	Dielectric Strength (Volts)	Volume Resistivity (Ohm/cms)	Surface Resistivity (Ohms)	Tensile Strength (Lbs/In)	CMD	Tear Strength Graves (Lbs)	CMD
222	.006	3.45	.29	9,000	10 ¹⁵	10 ¹³	79	51	8	5
232	.007	2.94	.34	8,000	10 ¹⁵	10 ¹³	90	95	8	7
2-7½-2	.0118	1.56	.64	16,800	10 ¹⁵	10 ¹³	190	190	17	17
333	.009	1.96	.51	8,900	10 ¹⁵	10 ¹³	125	94	12	9
353	.011	1.65	.61	12,000	10 ¹⁵	10 ¹³	155	130	18	13
3753	.014	1.23	.81	15,000	10 ¹⁵	10 ¹³	210	195	25	20
3103	.016	1.04	.96	19,800	10 ¹⁵	10 ¹³	250	250	25	24
3143	.020	.82	1.22	22,000	10 ¹⁵	10 ¹³	277	289	39	33
535	.014	1.69	.59	9,300	10 ¹⁵	10 ¹³	185	115	17	11
555	.0154	1.39	.72	14,000	10 ¹⁵	10 ¹³	203	148	22	15
5105	.020	.96	1.04	17,600	10 ¹⁵	10 ¹³	270	220	34	26
5145	.025	.76	1.31	25,500	10 ¹⁵	10 ¹³	290	270	39	37

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Table C: DMD 180

Product	Thickness inches	Basis Weight lb/yd ²	Dielectric Breakdown Strength kV	Tensile Strength- MD Lb/in	Elongation- MD %	Elmendorf Tear- Grams MD, (CD)
3-3-3	.009	.5	8.5	106	42	455(770)
3-5-3	.011	.63	11.0	150	41	470(830)
3-7½-3	.014	.78	15.0	169	40	490(1050)
3-14-3	.020	1.22	20.5	240	38	1060(1400)
5-3-5	.013	.68	8.8	117	36	570(1340)
5-5-5	.015	.81	11.5	143	36	1080(2780)
5-10-5	.020	1.17	18.8	221	40	1120(3200)