



N5000 - Dielectric Properties Table

LAMINATE:

Thickness (inch)	&	Tol.	Construction					RC%	Nominal Thickness (inch)	Nominal Thickness (µm)	1 MHz Dk	1 GHz Dk	2.5 GHz Dk	10 GHz Dk
0.0020	±	0.0005	1	106				63%	0.0017	42	3.60	3.46	3.41	3.38
0.0027	±	0.0005	1	1080				57%	0.0027	68	3.73	3.60	3.50	3.47
0.0030	±	0.0005	1	1080				63%	0.0032	81	3.60	3.47	3.41	3.38
0.0035	±	0.0005	2	106				63%	0.0033	85	3.60	3.46	3.41	3.38
0.0040	±	0.0005	1	106	+	1	1080	56%	0.0040	102	3.75	3.61	3.51	3.48
0.0040	±	0.0005	1	2116				46%	0.0043	110	4.05	3.92	3.71	3.70
0.0045	±	0.0005	1	2116				47%	0.0045	115	4.01	3.87	3.68	3.66
0.0050	±	0.0007	1	1080	+	1	1080	55%	0.0050	128	3.79	3.65	3.54	3.51
0.0050	±	0.0007	1	2113	+	1	106	53%	0.0053	135	3.82	3.69	3.56	3.53
0.0060	±	0.0007	1	1080	+	1	2113	53%	0.0063	160	3.84	3.71	3.57	3.55
0.0060	±	0.0007	1	2116	+	1	106	51%	0.0062	157	3.89	3.76	3.60	3.58
0.0070	±	0.0010	2	2113				50%	0.0073	184	3.93	3.80	3.63	3.61
0.0080	±	0.0010	2	1080	+	1	2113	54%	0.0090	229	3.81	3.68	3.55	3.52
0.0080	±	0.0010	1	2116	+	1	2113	48%	0.0081	207	3.97	3.84	3.66	3.64
0.0090	±	0.0010	2	2116				47%	0.0090	230	4.01	3.87	3.68	3.66
0.0100	±	0.0010	2	1080	+	1	2116	56%	0.0109	277	3.76	3.63	3.52	3.49
0.0100	±	0.0010	2	2116	+	1	106	49%	0.0107	272	3.94	3.80	3.64	3.61
0.0120	±	0.0015	2	1080	+	1	7628	46%	0.0126	319	4.04	3.90	3.70	3.69
0.0140	±	0.0015	2	2113	+	1	7628	44%	0.0144	367	4.11	3.97	3.75	3.73
0.0160	±	0.0015	2	2116	+	1	7628	43%	0.0162	412	4.13	3.99	3.76	3.75



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LAMINATE (Continued):

Thickness (inch)	&	Tol.	Construction					RC%	Nominal Thickness (inch)	Nominal Thickness (µm)	1 MHz Dk	1 GHz Dk	2.5 GHz Dk	10 GHz Dk
0.0180	±	0.0015	2	7628	+	1	2116	41%	0.0189	480	4.22	4.08	3.82	3.81
0.0200	±	0.0025	2	2113	+	2	7628	42%	0.0216	549	4.17	4.03	3.79	3.77
0.0210	±	0.0025	3	7628				39%	0.0216	547	4.29	4.15	3.87	3.86
0.0240	±	0.0025	3	2113	+	2	7628	43%	0.0253	641	4.13	3.99	3.76	3.75
0.0280	±	0.0025	2	2116	+	3	7628	41%	0.0302	768	4.22	4.08	3.82	3.81
0.0394	±	0.0040	2	1080	+	5	7628	40%	0.0406	1031	4.24	4.10	3.84	3.82
0.0440	±	0.0050	6	7628	+	1	2113	39%	0.0467	1187	4.26	4.12	3.85	3.84
0.0590	±	0.0050	2	1080	+	8	7628	40%	0.0629	1596	4.24	4.10	3.84	3.82

PREPREG:

Glass	RC%	Thickness (inches)	Thickness (µm)	1 MHz Dk	1 GHz Dk	2.5 GHz Dk	10 GHz Dk
106	76%	0.0028	71	3.32	3.19	3.22	3.18
1080	65%	0.0035	88	3.55	3.41	3.37	3.34
2113	58%	0.0046	117	3.71	3.57	3.48	3.45
2116	54%	0.0054	138	3.81	3.68	3.55	3.52
7628	44%	0.0082	208	4.10	3.97	3.74	3.73

These laminate and prepreg items are representative of available materials. These items and their associated values may not be regularly available and additional lead times or minimum order quantities could apply. Please contact our office or your local technical representative for assistance with choosing the best material for your design and application.

For More Information:

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