



## N4000-13SI<sup>®</sup> - Dielectric Properties Table

**LAMINATE:**

Thickness (inch)	&	Tol.	Construction					RC%	Nominal Thickness (inch)	Nominal Thickness (μm)	1 GHz Dk	2 GHz Dk	2 GHz Df	10 GHz Dk	10 GHz Df
0.0020	±	0.0005	1	0106				68%	0.0019	49	2.97	3.05	0.0082	3.02	0.0085
0.0025	±	0.0005	1	1080				58%	0.0026	66	3.08	3.19	0.0077	3.16	0.0080
0.0030	±	0.0005	1	1080				64%	0.0031	79	3.02	3.11	0.0079	3.08	0.0083
0.0040	±	0.0005	1	2116				45%	0.0040	102	3.25	3.38	0.0069	3.35	0.0072
0.0040	±	0.0005	2	0106				68%	0.0039	98	2.97	3.05	0.0082	3.02	0.0085
0.0045	±	0.0005	1	1080	+	1	106	62%	0.0045	115	3.03	3.13	0.0079	3.10	0.0082
0.0050	±	0.0007	1	2116				56%	0.0053	135	3.10	3.21	0.0076	3.18	0.0079
0.0050	±	0.0007	2	1080				58%	0.0052	132	3.08	3.19	0.0077	3.16	0.0080
0.0060	±	0.0007	2	1080				64%	0.0062	158	3.02	3.11	0.0079	3.08	0.0083
0.0070	±	0.0010	2	1080	+	1	106	60%	0.0071	181	3.05	3.15	0.0078	3.12	0.0081
0.0080	±	0.0010	2	2116				45%	0.0081	205	3.25	3.38	0.0069	3.35	0.0072
0.0100	±	0.0010	2	2116				56%	0.0106	270	3.10	3.21	0.0076	3.18	0.0079
0.0120	±	0.0015	3	2116				45%	0.0121	307	3.25	3.38	0.0069	3.35	0.0072
0.0140	±	0.0015	2	2116	+	1	2116	53%	0.0147	372	3.14	3.25	0.0074	3.23	0.0077
0.0160	±	0.0015	4	2116				45%	0.0161	409	3.25	3.38	0.0069	3.35	0.0072
0.0180	±	0.0015	2	2116	+	2	2116	51%	0.0187	474	3.16	3.28	0.0073	3.25	0.0076
0.0210	±	0.0020	4	2116	+	1	106	57%	0.0232	589	3.09	3.19	0.0076	3.17	0.0079



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### PREPREG:

Glass	RC%	Thickness (inches)	Thickness (μm)	1 GHz Dk	2 GHz Dk	2 GHz Df	10 GHz Dk	10 GHz Df
106	75%	0.0025	64	3.11	2.98	0.0084	2.95	0.0088
1035	75%	0.0030	76	3.11	2.98	0.0084	2.95	0.0088
1078	65%	0.0033	83	3.20	3.09	0.0080	3.06	0.0084
1080	65%	0.0033	83	3.20	3.09	0.0080	3.06	0.0084
1080	71.0	0.0041	104	3.14	3.02	0.0083	2.99	0.0087
2013	57%	0.0043	109	3.29	3.19	0.0076	3.17	0.0079
2116	55%	0.0052	132	3.31	3.22	0.0075	3.19	0.0078

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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