



Meteorwave 1000 – Dielectric Properties Table

LAMINATE

Thickness	&	Tol.	Construction				RC%	Nominal Thickness (inch)	2GHz Dk	2 GHz Df	10 GHz Dk	10 GHz Df	40 GHz Dk	40 GHz Df	
0.0020	±	0.0005	1	106			73%	0.0021	3.32	0.0035	3.27	0.0043	3.26	0.0045	
0.0020	±	0.0005	1	1035			68%	0.0021	3.41	0.0037	3.35	0.0045	3.34	0.0047	
0.0025	±	0.0005	1	1078			59%	0.0026	3.57	0.0039	3.53	0.0050	3.52	0.0052	
0.0030	±	0.0005	1	1078			65%	0.0031	3.46	0.0038	3.41	0.0047	3.40	0.0049	
0.0035	±	0.0005	1	3313			53%	0.0037	3.70	0.0042	3.66	0.0053	3.65	0.0055	
0.0040	±	0.0005	2	106			73%	0.0042	3.32	0.0035	3.27	0.0043	3.26	0.0045	
0.0040	±	0.0005	2	1035			68%	0.0043	3.41	0.0037	3.35	0.0045	3.34	0.0047	
0.0040	±	0.0005	1	3313			56%	0.0040	3.63	0.0040	3.59	0.0051	3.58	0.0053	
0.0040	±	0.0005	1	2116			46%	0.0039	3.87	0.0044	3.84	0.0057	3.83	0.0059	
0.0050	±	0.0007	1	2116			55%	0.0050	3.66	0.0041	3.62	0.0052	3.61	0.0054	
0.0050	±	0.0007	2	1078			59%	0.0051	3.57	0.0039	3.53	0.0050	3.52	0.0052	
0.0060	±	0.0007	2	1078			65%	0.0062	3.46	0.0038	3.41	0.0047	3.40	0.0049	
0.0070	±	0.001	2	1035	+	1	1078	67%	0.0074	3.43	0.0037	3.38	0.0046	3.37	0.0048
0.0070	±	0.001	2	3313			53%	0.0074	3.70	0.0042	3.66	0.0053	3.65	0.0055	
0.0070	±	0.001	1	7628			42%	0.0070	3.97	0.0046	3.95	0.0060	3.94	0.0062	
0.0075	±	0.001	1	7628			45%	0.0076	3.89	0.0045	3.86	0.0058	3.85	0.0060	
0.0080	±	0.001	2	2116			46%	0.0079	3.87	0.0044	3.84	0.0057	3.83	0.0059	
0.0080	±	0.001	2	3313			57%	0.0082	3.61	0.0040	3.57	0.0051	3.56	0.0053	
0.0090	±	0.001	1	2116	+	1	2116	51%	0.0089	3.75	0.0042	3.71	0.0054	3.70	0.0056
0.0100	±	0.001	2	2116			55%	0.0099	3.66	0.0041	3.62	0.0052	3.61	0.0054	
0.0100	±	0.001	2	2116	+	1	1078	47%	0.0101	3.83	0.0044	3.80	0.0056	3.79	0.0058
0.0120	±	0.0015	2	1078	+	1	7628	50%	0.0127	3.76	0.0043	3.72	0.0054	3.71	0.0056

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0.0140	±	0.0015	1	7628	+	1	7628	42%	0.0140	3.98	0.0046	3.96	0.0060	3.95	0.0062
0.0150	±	0.0015	2	7628				45%	0.0151	3.89	0.0045	3.86	0.0058	3.85	0.0060
0.0160	±	0.0015	2	2116	+	1	7628	48%	0.0164	3.82	0.0044	3.79	0.0056	3.78	0.0058
0.0210	±	0.0025	2	7628	+	1	7628	43%	0.0216	3.95	0.0046	3.92	0.0059	3.91	0.0061
0.0240	±	0.0025	2	2116	+	2	7628	47%	0.0240	3.84	0.0044	3.81	0.0056	3.80	0.0058
0.0280	±	0.0025	2	7628	+	2	7628	42%	0.0280	3.98	0.0046	3.96	0.0060	3.95	0.0062
0.0310	±	0.004	4	7628	+	1	1078	44%	0.0313	3.92	0.0045	3.89	0.0058	3.88	0.0060
0.0450	±	0.005	2	7628	+	4	7628	45%	0.0453	3.89	0.0045	3.86	0.0058	3.85	0.0060
0.0590	±	0.005	6	7628	+	2	7628	44%	0.0594	3.91	0.0045	3.88	0.0058	3.87	0.0060
0.0600	±	0.005	2	7628	+	6	7628	45%	0.0604	3.89	0.0045	3.86	0.0058	3.85	0.0060

NOTE: 2013 may be substituted for 3313

The following laminate and prepreg items are a 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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PREPREG:

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	40GHz Dk	40GHz Df	Thickness (inches)	Thickness (µm)
1027	74	3.31	0.0035	3.25	0.0043	3.24	0.0045	0.0018	46.1
106	75	3.29	0.0035	3.23	0.0042	3.22	0.0044	0.0023	58.8
106	77	3.26	0.0034	3.20	0.0042	3.19	0.0044	0.0025	64.5
1035	70	3.37	0.0036	3.32	0.0045	3.31	0.0047	0.0023	58.5
1035	75	3.29	0.0035	3.23	0.0042	3.22	0.0044	0.0028	71.8
1035	77	3.26	0.0034	3.20	0.0042	3.19	0.0044	0.0031	78.8
1078	65	3.46	0.0038	3.41	0.0047	3.40	0.0049	0.0031	78.4
1078	68	3.41	0.0037	3.35	0.0045	3.34	0.0047	0.0034	87.0
1078	72	3.34	0.0035	3.28	0.0044	3.27	0.0046	0.0040	101.4
1080	65	3.46	0.0038	3.41	0.0047	3.40	0.0049	0.0030	76.8
1080	68	3.41	0.0037	3.35	0.0045	3.34	0.0047	0.0034	85.2
3313	60	3.55	0.0039	3.51	0.0049	3.50	0.0051	0.0045	114.0
2116	55	3.66	0.0041	3.62	0.0052	3.61	0.0054	0.0050	126.0
2116	58	3.59	0.0040	3.55	0.0050	3.54	0.0052	0.0054	137.1
7628	48	3.82	0.0044	3.78	0.0056	3.77	0.0058	0.0081	206.2

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