



# 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			
			1	106																							
0.0020	±	0.0005	1	106				73%	0.0021	3.32	±	0.07	0.0035	±	0.0001	3.27	±	0.07	0.0043	±	0.0002	3.26	±	0.07	0.0045	±	0.0002
0.0020	±	0.0005	1	1035				68%	0.0021	3.41	±	0.08	0.0037	±	0.0001	3.35	±	0.08	0.0045	±	0.0002	3.34	±	0.08	0.0047	±	0.0002
0.0025	±	0.0005	1	1078				59%	0.0026	3.57	±	0.11	0.0039	±	0.0002	3.53	±	0.11	0.0050	±	0.0003	3.52	±	0.11	0.0052	±	0.0003
0.0030	±	0.0005	1	1078				65%	0.0031	3.46	±	0.07	0.0038	±	0.0001	3.41	±	0.08	0.0047	±	0.0002	3.40	±	0.08	0.0049	±	0.0002
0.0035	±	0.0005	1	3313				53%	0.0037	3.70	±	0.08	0.0042	±	0.0001	3.66	±	0.08	0.0053	±	0.0002	3.65	±	0.08	0.0055	±	0.0002
0.0040	±	0.0005	2	106				73%	0.0042	3.32	±	0.03	0.0035	±	0.0001	3.27	±	0.03	0.0043	±	0.0001	3.26	±	0.03	0.0045	±	0.0001
0.0040	±	0.0005	2	1035				68%	0.0043	3.41	±	0.03	0.0037	±	0.0001	3.35	±	0.04	0.0045	±	0.0001	3.34	±	0.04	0.0047	±	0.0001
0.0040	±	0.0005	1	3313				56%	0.0040	3.63	±	0.10	0.0040	±	0.0002	3.59	±	0.10	0.0051	±	0.0002	3.58	±	0.10	0.0053	±	0.0002
0.0040	±	0.0005	1	2116				46%	0.0039	3.87	±	0.15	0.0044	±	0.0002	3.84	±	0.15	0.0057	±	0.0004	3.83	±	0.15	0.0059	±	0.0004
0.0050	±	0.0007	1	2116				55%	0.0050	3.66	±	0.11	0.0041	±	0.0002	3.62	±	0.12	0.0052	±	0.0003	3.61	±	0.12	0.0054	±	0.0003
0.0050	±	0.0007	2	1078				59%	0.0051	3.57	±	0.08	0.0039	±	0.0001	3.53	±	0.08	0.0050	±	0.0002	3.52	±	0.08	0.0052	±	0.0002
0.0060	±	0.0007	2	1078				65%	0.0062	3.46	±	0.05	0.0038	±	0.0001	3.41	±	0.05	0.0047	±	0.0001	3.40	±	0.05	0.0049	±	0.0001
0.0070	±	0.001	2	1035	+	1	1078	67%	0.0074	3.43	±	0.05	0.0037	±	0.0001	3.38	±	0.05	0.0046	±	0.0001	3.37	±	0.05	0.0048	±	0.0001
0.0070	±	0.001	2	3313				53%	0.0074	3.70	±	0.08	0.0042	±	0.0001	3.66	±	0.08	0.0053	±	0.0002	3.65	±	0.08	0.0055	±	0.0002
0.0070	±	0.001	1	7628				42%	0.0070	3.97	±	0.16	0.0046	±	0.0003	3.95	±	0.17	0.0060	±	0.0004	3.94	±	0.17	0.0062	±	0.0004
0.0075	±	0.001	1	7628				45%	0.0076	3.89	±	0.14	0.0045	±	0.0002	3.86	±	0.15	0.0058	±	0.0004	3.85	±	0.15	0.0060	±	0.0004
0.0080	±	0.001	2	2116				46%	0.0079	3.87	±	0.15	0.0044	±	0.0002	3.84	±	0.15	0.0057	±	0.0004	3.83	±	0.15	0.0059	±	0.0004
0.0080	±	0.001	2	3313				57%	0.0082	3.61	±	0.08	0.0040	±	0.0001	3.57	±	0.08	0.0051	±	0.0002	3.56	±	0.08	0.0053	±	0.0002
0.0090	±	0.001	1	2116	+	1	2116	51%	0.0089	3.75	±	0.11	0.0042	±	0.0002	3.71	±	0.12	0.0054	±	0.0003	3.70	±	0.12	0.0056	±	0.0003
0.0100	±	0.001	2	2116				55%	0.0099	3.66	±	0.09	0.0041	±	0.0002	3.62	±	0.09	0.0052	±	0.0002	3.61	±	0.09	0.0054	±	0.0002
0.0100	±	0.001	2	2116	+	1	1078	47%	0.0101	3.83	±	0.10	0.0044	±	0.0002	3.80	±	0.11	0.0056	±	0.0003	3.79	±	0.11	0.0058	±	0.0003



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Thickness	&	Tol.	Construction				RC%	Nominal Thickness (inch)	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df			40 GHz Dk			40 GHz Df			
0.0120	±	0.0015	2	1078	+	1	7628	50%	0.0127	3.76	±	0.07	0.0043	±	0.0001	3.72	±	0.07	0.0054	±	0.0002	3.71	±	0.07	0.0056	±	0.0002
0.0140	±	0.0015	1	7628	+	1	7628	42%	0.0140	3.98	±	0.14	0.0046	±	0.0002	3.96	±	0.14	0.0060	±	0.0003	3.95	±	0.14	0.0062	±	0.0003
0.0150	±	0.0015	2	7628				45%	0.0151	3.89	±	0.11	0.0045	±	0.0002	3.86	±	0.12	0.0058	±	0.0003	3.85	±	0.12	0.0060	±	0.0003
0.0160	±	0.0015	2	2116	+	1	7628	48%	0.0164	3.82	±	0.08	0.0044	±	0.0001	3.79	±	0.09	0.0056	±	0.0002	3.78	±	0.09	0.0058	±	0.0002
0.0210	±	0.0025	2	7628	+	1	7628	43%	0.0216	3.95	±	0.12	0.0046	±	0.0002	3.92	±	0.12	0.0059	±	0.0003	3.91	±	0.12	0.0061	±	0.0003
0.0240	±	0.0025	2	2116	+	2	7628	47%	0.0240	3.84	±	0.11	0.0044	±	0.0002	3.81	±	0.12	0.0056	±	0.0003	3.80	±	0.12	0.0058	±	0.0003
0.0280	±	0.0025	2	7628	+	2	7628	42%	0.0280	3.98	±	0.12	0.0046	±	0.0002	3.96	±	0.12	0.0060	±	0.0003	3.95	±	0.12	0.0062	±	0.0003
0.0310	±	0.004	4	7628	+	1	1078	44%	0.0313	3.92	±	0.14	0.0045	±	0.0002	3.89	±	0.14	0.0058	±	0.0003	3.88	±	0.14	0.0060	±	0.0003
0.0450	±	0.005	2	7628	+	4	7628	45%	0.0453	3.89	±	0.12	0.0045	±	0.0002	3.86	±	0.13	0.0058	±	0.0003	3.85	±	0.13	0.0060	±	0.0003
0.0590	±	0.005	6	7628	+	2	7628	44%	0.0594	3.91	±	0.10	0.0045	±	0.0002	3.88	±	0.10	0.0058	±	0.0003	3.87	±	0.10	0.0060	±	0.0003
0.0600	±	0.005	2	7628	+	6	7628	45%	0.0604	3.89	±	0.10	0.0045	±	0.0002	3.86	±	0.10	0.0058	±	0.0002	3.85	±	0.10	0.0060	±	0.0002

**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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