



Meteorwave 3000 – 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									±	0.07			±	0.06		
0.0020	±	0.0005	1	106			74.0%	0.0021	3.44	±	0.07	0.0029	3.40	±	0.06	0.0035	3.39	±	0.06	0.0037
0.0025	±	0.0005	1	1078			60.0%	0.0025	3.72	±	0.11	0.0032	3.66	±	0.11	0.0041	3.65	±	0.11	0.0043
0.0030	±	0.0005	1	1078			66.0%	0.0031	3.59	±	0.07	0.0031	3.54	±	0.07	0.0039	3.53	±	0.07	0.0041
0.0030	±	0.0005	1	1080			66.0%	0.0030	3.59	±	0.09	0.0031	3.54	±	0.08	0.0039	3.53	±	0.08	0.0041
0.0040	±	0.0005	2	106			74.0%	0.0042	3.44	±	0.03	0.0029	3.40	±	0.02	0.0035	3.39	±	0.02	0.0037
0.0040	±	0.0005	2	1035			69.0%	0.0042	3.53	±	0.03	0.0030	3.49	±	0.03	0.0037	3.48	±	0.03	0.0039
0.0040	±	0.0005	1	2116			49.0%	0.0041	3.99	±	0.10	0.0036	3.91	±	0.09	0.0047	3.90	±	0.09	0.0049
0.0040	±	0.0005	1	3313			58.0%	0.0041	3.76	±	0.08	0.0033	3.70	±	0.07	0.0042	3.69	±	0.07	0.0044
0.0050	±	0.0007	1	2116			58.0%	0.0052	3.76	±	0.07	0.0033	3.70	±	0.07	0.0042	3.69	±	0.07	0.0044
0.0050	±	0.0007	2	1078			60.0%	0.0051	3.72	±	0.08	0.0032	3.66	±	0.08	0.0041	3.65	±	0.08	0.0043
0.0060	±	0.0007	2	1078			66.0%	0.0061	3.59	±	0.05	0.0031	3.54	±	0.05	0.0039	3.53	±	0.05	0.0041
0.0070	±	0.001	2	1078			70.0%	0.0070	3.51	±	0.06	0.0030	3.47	±	0.05	0.0037	3.46	±	0.05	0.0039
0.0070	±	0.001	1	7628			44.0%	0.0071	4.13	±	0.14	0.0038	4.04	±	0.13	0.0050	4.03	±	0.13	0.0052
0.0075	±	0.001	1	7628			47.0%	0.0077	4.04	±	0.12	0.0037	3.96	±	0.11	0.0048	3.95	±	0.11	0.0050
0.0080	±	0.001	3	1078			63.0%	0.0083	3.65	±	0.05	0.0032	3.60	±	0.05	0.0040	3.59	±	0.05	0.0042
0.0080	±	0.001	2	2116			49.0%	0.0082	3.99	±	0.10	0.0036	3.91	±	0.09	0.0047	3.90	±	0.09	0.0049
0.0080	±	0.001	2	3313			58.0%	0.0081	3.76	±	0.08	0.0033	3.70	±	0.07	0.0042	3.69	±	0.07	0.0044

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0.0090	±	0.001	1	2116	+	1	2116	53.9%	0.0093	3.86	±	0.07	0.0034	3.79	±	0.06	0.0044	3.78	±	0.06	0.0046
0.0100	±	0.001	2	2116				58.0%	0.0104	3.76	±	0.05	0.0033	3.70	±	0.04	0.0042	3.69	±	0.04	0.0044
0.0120	±	0.0015	2	2116	+	1	1078	57.3%	0.0125	3.78	±	0.06	0.0033	3.72	±	0.06	0.0043	3.70	±	0.06	0.0045
0.0120	±	0.0015	2	1078	+	1	7628	50.3%	0.0122	3.95	±	0.10	0.0035	3.88	±	0.09	0.0046	3.86	±	0.09	0.0048
0.0140	±	0.0015	2	7628				44.0%	0.0143	4.13	±	0.10	0.0038	4.04	±	0.10	0.0050	4.03	±	0.10	0.0052
0.0150	±	0.0015	2	7628				47.0%	0.0153	4.04	±	0.09	0.0037	3.96	±	0.08	0.0048	3.95	±	0.08	0.0050
0.0160	±	0.0015	2	2116	+	1	7628	50.7%	0.0169	3.94	±	0.04	0.0035	3.87	±	0.03	0.0046	3.86	±	0.03	0.0048
0.0170	±	0.0015	2	7628	+	1	1078	48.8%	0.0178	3.99	±	0.04	0.0036	3.92	±	0.04	0.0047	3.90	±	0.04	0.0049
0.0180	±	0.0015	2	7628	+	1	3313	47.0%	0.0184	4.04	±	0.07	0.0037	3.96	±	0.06	0.0048	3.95	±	0.06	0.0050
0.0200	±	0.0025	2	7628	+	1	7628	42.7%	0.0208	4.17	±	0.10	0.0038	4.08	±	0.09	0.0051	4.07	±	0.09	0.0053
0.0200	±	0.0025	2	2116	+	2	2116	58.0%	0.0207	3.76	±	0.06	0.0033	3.70	±	0.06	0.0042	3.69	±	0.06	0.0044
0.0220	±	0.0025	2	7628	+	1	7628	46.0%	0.0224	4.07	±	0.10	0.0037	3.99	±	0.09	0.0049	3.97	±	0.09	0.0051
0.0240	±	0.0025	2	2116	+	2	7628	49.7%	0.0246	3.97	±	0.08	0.0036	3.89	±	0.07	0.0047	3.88	±	0.07	0.0049
0.0280	±	0.0025	4	7628				44.0%	0.0286	4.13	±	0.08	0.0038	4.04	±	0.08	0.0050	4.03	±	0.08	0.0052
0.0300	±	0.0025	6	2116				58.0%	0.0311	3.76	±	0.04	0.0033	3.70	±	0.03	0.0042	3.69	±	0.03	0.0044
0.0310	±	0.004	4	7628	+	1	1078	45.9%	0.0316	4.07	±	0.12	0.0037	3.99	±	0.11	0.0049	3.98	±	0.11	0.0051
0.0590	±	0.005	2	7628	+	6	7628	46.3%	0.0602	4.06	±	0.07	0.0037	3.98	±	0.07	0.0049	3.97	±	0.07	0.0051

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PREPREG:

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	40GHz Dk	40GHz Df	Thickness (inches)	Thickness (µm)
106	78	3.37	0.0028	3.34	0.0034	3.32	0.0036	0.0025	64.4
1035	72	3.47	0.0029	3.44	0.0036	3.42	0.0038	0.0024	60.3
1035	75	3.42	0.0029	3.39	0.0035	3.37	0.0037	0.0027	68.4
1035	79	3.35	0.0028	3.32	0.0034	3.31	0.0036	0.0033	82.8
1078	67	3.57	0.0031	3.52	0.0038	3.51	0.0040	0.0032	80.3
1078	70	3.51	0.0030	3.47	0.0037	3.46	0.0039	0.0035	89.4
1078	74	3.44	0.0029	3.40	0.0035	3.39	0.0037	0.0041	105.0
1078	77	3.38	0.0028	3.35	0.0034	3.34	0.0036	0.0047	120.1
1080	67	3.57	0.0031	3.52	0.0038	3.51	0.0040	0.0031	78.6
1080	70	3.51	0.0030	3.47	0.0037	3.46	0.0039	0.0034	87.5
2013	62	3.67	0.0032	3.62	0.0040	3.61	0.0042	0.0046	116.1
3313	62	3.67	0.0032	3.62	0.0040	3.61	0.0042	0.0046	116.1
2116	59	3.74	0.0033	3.68	0.0042	3.67	0.0044	0.0053	135.4
7628	48	4.01	0.0036	3.94	0.0048	3.92	0.0050	0.0078	199.0

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