



Meteorwave 8000 – 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
0.0012	±	0.0005	1	1027			70.0%	0.0013	3.35	±	0.078	0.0012	3.33	±	0.057	0.0017	3.33	±	0.057	0.0020
0.0020	±	0.0005	1	106			75.0%	0.0021	3.29	±	0.048	0.0012	3.28	±	0.032	0.0016	3.27	±	0.032	0.0019
0.0020	±	0.0005	1	1035			70.0%	0.0021	3.35	±	0.061	0.0012	3.33	±	0.040	0.0017	3.33	±	0.040	0.0020
0.0025	±	0.0005	1	1078			63.0%	0.0026	3.44	±	0.061	0.0013	3.42	±	0.030	0.0018	3.41	±	0.030	0.0021
0.0030	±	0.0005	1	1080			69.0%	0.0032	3.36	±	0.041	0.0012	3.34	±	0.019	0.0017	3.34	±	0.018	0.0020
0.0030	±	0.0005	1	1078			69.0%	0.0032	3.36	±	0.033	0.0012	3.34	±	0.011	0.0017	3.34	±	0.010	0.0020
0.0040	±	0.0005	2	1035			70.0%	0.0041	3.35	±	0.031	0.0012	3.33	±	0.009	0.0017	3.33	±	0.009	0.0020
0.0040	±	0.0005	2	106			75.0%	0.0042	3.29	±	0.024	0.0012	3.28	±	0.008	0.0016	3.27	±	0.008	0.0019
0.0040	±	0.0005	1	2013			61.0%	0.0041	3.47	±	0.038	0.0013	3.45	±	0.005	0.0018	3.44	±	0.005	0.0021
0.0045	±	0.0005	1	2116			56.0%	0.0046	3.55	±	0.046	0.0014	3.51	±	0.006	0.0019	3.51	±	0.006	0.0022
0.0045	±	0.0005	2	1035			74.0%	0.0048	3.30	±	0.012	0.0012	3.29	±	0.005	0.0016	3.28	±	0.005	0.0019
0.0050	±	0.0007	2	1035			76.0%	0.0052	3.27	±	0.020	0.0012	3.27	±	0.006	0.0016	3.26	±	0.006	0.0019
0.0050	±	0.0007	1	2116			60.0%	0.0052	3.49	±	0.050	0.0013	3.46	±	0.015	0.0018	3.45	±	0.015	0.0021
0.0050	±	0.0007	2	1078			63.0%	0.0052	3.44	±	0.040	0.0013	3.42	±	0.010	0.0018	3.41	±	0.010	0.0021
0.0060	±	0.0007	2	1078			69.0%	0.0064	3.36	±	0.019	0.0012	3.34	±	0.004	0.0017	3.34	±	0.004	0.0020
0.0060	±	0.0007	2	1035			80.0%	0.0064	3.23	±	0.009	0.0011	3.22	±	0.002	0.0015	3.22	±	0.002	0.0018
0.0070	±	0.001	2	2013			56.0%	0.0072	3.55	±	0.057	0.0014	3.51	±	0.016	0.0019	3.51	±	0.016	0.0022
0.0070	±	0.001	2	1078			73.0%	0.0074	3.31	±	0.022	0.0012	3.30	±	0.004	0.0016	3.29	±	0.004	0.0019

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For More Information:

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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
0.0080	±	0.001	2	2116			51.0%	0.0081	3.63	±	0.067	0.0014	3.59	±	0.019	0.0020	3.58	±	0.019	0.0023
0.0080	±	0.001	2	2013			61.0%	0.0083	3.47	±	0.038	0.0013	3.45	±	0.005	0.0018	3.44	±	0.005	0.0021
0.0090	±	0.001	1	2116	1	2116	56.0%	0.0092	3.55	±	0.047	0.0014	3.52	±	0.006	0.0019	3.51	±	0.006	0.0022
0.0100	±	0.001	2	2116			60.0%	0.0103	3.49	±	0.033	0.0013	3.46	±	0.001	0.0018	3.45	±	0.001	0.0021
0.0120	±	0.0015	2	2013	1	2116	57.7%	0.0123	3.52	±	0.047	0.0014	3.49	±	0.008	0.0018	3.48	±	0.008	0.0021
0.0120	±	0.0015	3	2013			61.0%	0.0124	3.47	±	0.038	0.0013	3.45	±	0.005	0.0018	3.44	±	0.005	0.0021
0.0140	±	0.0015	2	2116	1	2116	57.4%	0.0144	3.53	±	0.042	0.0014	3.49	±	0.003	0.0019	3.49	±	0.003	0.0022
0.0150	±	0.0015	2	2116	1	2116	60.0%	0.0155	3.49	±	0.033	0.0013	3.46	±	0.001	0.0018	3.45	±	0.001	0.0021
0.0160	±	0.0015	2	1078	2	2116	63.4%	0.0167	3.44	±	0.023	0.0013	3.41	±	0.008	0.0018	3.41	±	0.008	0.0021
0.0160	±	0.0015	4	2116			51.0%	0.0163	3.63	±	0.049	0.0014	3.59	±	0.000	0.0020	3.58	±	0.000	0.0023
0.0180	±	0.0015	2	2116	2	2116	56.0%	0.0185	3.55	±	0.033	0.0014	3.52	±	0.008	0.0019	3.51	±	0.008	0.0022
0.0200	±	0.0025	2	2116	3	2116	51.0%	0.0204	3.63	±	0.067	0.0014	3.59	±	0.019	0.0020	3.58	±	0.019	0.0023
0.0280	±	0.0025	7	2116			51.0%	0.0285	3.63	±	0.046	0.0014	3.59	±	0.002	0.0020	3.58	±	0.002	0.0023
0.0300	±	0.0025	2	2116	4	2116	60.0%	0.0309	3.49	±	0.026	0.0013	3.46	±	0.009	0.0018	3.45	±	0.009	0.0021
0.0310	±	0.004	3	2116	4	2116	55.3%	0.0318	3.56	±	0.057	0.0014	3.52	±	0.016	0.0019	3.52	±	0.016	0.0022
0.0600	±	0.005	12	2116			59.0%	0.0601	3.50	±	0.041	0.0013	3.47	±	0.005	0.0018	3.46	±	0.005	0.0021

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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	70	3.35	0.0012	3.33	0.0017	3.33	0.0020	0.0013	34.2
106	78	3.25	0.0012	3.25	0.0015	3.24	0.0018	0.0024	60.5
1067	77	3.26	0.0012	3.26	0.0016	3.25	0.0019	0.0028	70.6
1035	75	3.29	0.0012	3.28	0.0016	3.27	0.0019	0.0025	63.0
1035	79	3.24	0.0011	3.23	0.0015	3.23	0.0018	0.0030	76.0
1035	81	3.22	0.0011	3.21	0.0015	3.21	0.0018	0.0033	84.5
1078	69	3.36	0.0012	3.34	0.0017	3.34	0.0020	0.0031	79.0
1078	73	3.31	0.0012	3.30	0.0016	3.29	0.0019	0.0036	92.0
1078	75	3.29	0.0012	3.28	0.0016	3.27	0.0019	0.0039	100.0
1080	69	3.36	0.0012	3.34	0.0017	3.34	0.0020	0.0031	79.0
1080	73	3.31	0.0012	3.30	0.0016	3.29	0.0019	0.0036	92.0
2013	61	3.47	0.0013	3.45	0.0018	3.44	0.0021	0.0041	104.9
2116	57	3.53	0.0014	3.50	0.0019	3.49	0.0022	0.0047	120.5
2116	60	3.49	0.0013	3.46	0.0018	3.45	0.0021	0.0052	130.9

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