



Meteorwave 4000 – 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	1035			70.0%	0.0021	3.37	±	0.039	0.0018	±	0.00006	3.34	±	0.029	0.0023	±	0.00010	3.31	±	0.029	0.0026	±	0.00010	
0.0025	±	0.0005	1	1078			63.0%	0.0026	3.46	±	0.029	0.0019	±	0.00004	3.40	±	0.021	0.0025	±	0.00008	3.38	±	0.021	0.0028	±	0.00008	
0.0030	±	0.0005	1	1078			69.0%	0.0032	3.38	±	0.009	0.0018	±	0.00001	3.35	±	0.007	0.0023	±	0.00002	3.32	±	0.007	0.0026	±	0.00002	
0.0040	±	0.0005	2	1035			70.0%	0.0041	3.37	±	0.008	0.0018	±	0.00001	3.34	±	0.006	0.0023	±	0.00002	3.31	±	0.006	0.0026	±	0.00002	
0.0040	±	0.0005	1	2013			61.0%	0.0041	3.48	±	0.003	0.0020	±	0.00000	3.42	±	0.002	0.0026	±	0.00001	3.40	±	0.002	0.0029	±	0.00001	
0.0050	±	0.0007	1	2116			60.0%	0.0052	3.50	±	0.014	0.0020	±	0.00002	3.43	±	0.010	0.0026	±	0.00004	3.41	±	0.010	0.0029	±	0.00004	
0.0050	±	0.0007	2	1078			63.0%	0.0053	3.46	±	0.008	0.0019	±	0.00001	3.40	±	0.006	0.0025	±	0.00002	3.38	±	0.006	0.0028	±	0.00002	
0.0060	±	0.0007	2	1078			69.0%	0.0064	3.38	±	0.006	0.0018	±	0.00001	3.35	±	0.004	0.0023	±	0.00001	3.32	±	0.004	0.0026	±	0.00001	
0.0070	±	0.001	2	2013			56.0%	0.0072	3.55	±	0.014	0.0021	±	0.00002	3.47	±	0.011	0.0027	±	0.00004	3.45	±	0.011	0.0030	±	0.00004	
0.0080	±	0.001	2	2116			51.0%	0.0082	3.63	±	0.017	0.0022	±	0.00002	3.53	±	0.012	0.0029	±	0.00004	3.51	±	0.012	0.0032	±	0.00004	
0.0080	±	0.001	2	2013			61.0%	0.0083	3.48	±	0.003	0.0020	±	0.00000	3.42	±	0.002	0.0026	±	0.00001	3.40	±	0.002	0.0029	±	0.00001	
0.0090	±	0.001	1	2116	+	1	2116	56.0%	0.0093	3.55	±	0.004	0.0021	±	0.00001	3.47	±	0.003	0.0027	±	0.00001	3.45	±	0.003	0.0030	±	0.00001
0.0100	±	0.001	2	2116			60.0%	0.0104	3.50	±	0.004	0.0020	±	0.00001	3.43	±	0.003	0.0026	±	0.00001	3.41	±	0.003	0.0029	±	0.00001	
0.0100	±	0.001	2	2116	+	1	1078	53.8%	0.0108	3.59	±	0.033	0.0021	±	0.00005	3.50	±	0.024	0.0028	±	0.00009	3.47	±	0.024	0.0031	±	0.00009
0.0120	±	0.0015	2	2013	+	1	2116	57.7%	0.0124	3.53	±	0.006	0.0020	±	0.00001	3.45	±	0.005	0.0027	±	0.00002	3.43	±	0.005	0.0030	±	0.00002
0.0140	±	0.0015	2	2116	+	1	2116	57.4%	0.0144	3.53	±	0.001	0.0020	±	0.00000	3.46	±	0.001	0.0027	±	0.00000	3.43	±	0.001	0.0030	±	0.00000
0.0150	±	0.0015	2	2116	+	1	2116	60.0%	0.0155	3.50	±	0.004	0.0020	±	0.00001	3.43	±	0.003	0.0026	±	0.00001	3.41	±	0.003	0.0029	±	0.00001
0.0160	±	0.0015	2	1078	+	2	2116	63.4%	0.0168	3.45	±	0.010	0.0019	±	0.00001	3.40	±	0.007	0.0025	±	0.00003	3.37	±	0.007	0.0028	±	0.00003

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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Thickness	&	Tol.	Construction				RC%	Nominal Thickness (inch)	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df			40 GHz Dk			40 GHz Df			
0.0180	±	0.0015	2	2116	+	2	2116	56.0%	0.0185	3.55	±	0.010	0.0021	±	0.00002	3.47	±	0.008	0.0027	±	0.00003	3.45	±	0.008	0.0030	±	0.00003
0.0200	±	0.0025	2	2116	+	3	2116	51.0%	0.0204	3.63	±	0.017	0.0022	±	0.00002	3.53	±	0.012	0.0029	±	0.00004	3.51	±	0.012	0.0032	±	0.00004
0.0310	±	0.004	2	2116	+	4	2116	60.0%	0.0311	3.50	±	0.024	0.0020	±	0.00004	3.43	±	0.018	0.0026	±	0.00006	3.41	±	0.018	0.0029	±	0.00006

PREPREG:

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	40GHz Dk	40GHz Df	Thickness (inches)	Thickness (µm)
1027	74	3.32	0.0017	3.30	0.0021	3.28	0.0024	0.0016	40.2
106	75	3.31	0.0017	3.29	0.0021	3.27	0.0024	0.0021	53.0
106	78	3.28	0.0017	3.27	0.0020	3.25	0.0023	0.0024	60.9
106	80	3.26	0.0016	3.26	0.0020	3.23	0.0023	0.0027	67.4
1035	72	3.34	0.0018	3.32	0.0022	3.30	0.0025	0.0022	56.0
1035	77	3.29	0.0017	3.28	0.0020	3.26	0.0023	0.0027	69.3
1035	79	3.27	0.0017	3.26	0.0020	3.24	0.0023	0.0030	76.4
1078	69	3.38	0.0018	3.35	0.0023	3.32	0.0026	0.0031	79.4
1078	74	3.32	0.0017	3.30	0.0021	3.28	0.0024	0.0038	96.3
1080	69	3.38	0.0018	3.35	0.0023	3.32	0.0026	0.0031	79.4
1080	74	3.32	0.0017	3.30	0.0021	3.28	0.0024	0.0038	96.3
2013	60	3.50	0.0020	3.43	0.0026	3.41	0.0029	0.0040	102.3
2116	57	3.54	0.0020	3.46	0.0027	3.44	0.0030	0.0048	121.0
2116	60	3.50	0.0020	3.43	0.0026	3.41	0.0029	0.0052	131.5

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