



Meteorwave 4000 – Dielectric Properties Table

LAMINATE:

Thickness	&	Tol.	Construction				RC%	Nominal Thickness (inch)	2 GHz 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	0.0018	3.34	0.0023	3.31	0.0026	
0.0025	±	0.0005	1	1078			63.0%	0.0026	3.46	0.0019	3.40	0.0025	3.38	0.0028	
0.0030	±	0.0005	1	1078			69.0%	0.0031	3.38	0.0018	3.35	0.0023	3.32	0.0026	
0.0040	±	0.0005	2	1035			70.0%	0.0041	3.37	0.0018	3.34	0.0023	3.31	0.0026	
0.0040	±	0.0005	1	2013			61.0%	0.0041	3.48	0.0020	3.42	0.0026	3.40	0.0029	
0.0050	±	0.0007	1	2116			60.0%	0.0052	3.50	0.0020	3.43	0.0026	3.41	0.0029	
0.0050	±	0.0007	2	1078			63.0%	0.0051	3.46	0.0019	3.40	0.0025	3.38	0.0028	
0.0060	±	0.0007	2	1078			69.0%	0.0063	3.38	0.0018	3.35	0.0023	3.32	0.0026	
0.0070	±	0.0010	2	2013			56.0%	0.0072	3.55	0.0021	3.47	0.0027	3.45	0.0030	
0.0080	±	0.0010	2	2116			51.0%	0.0082	3.63	0.0022	3.53	0.0029	3.51	0.0032	
0.0080	±	0.0010	2	2013			61.0%	0.0083	3.48	0.0020	3.42	0.0026	3.40	0.0029	
0.0090	±	0.0010	1	2116	+	1	2116	56.0%	0.0093	3.55	0.0021	3.47	0.0027	3.45	0.0030
0.0100	±	0.0010	2	2116			60.0%	0.0104	3.50	0.0020	3.43	0.0026	3.41	0.0029	
0.0100	±	0.0010	2	2116	+	1	1078	53.8%	0.0107	3.59	0.0021	3.50	0.0028	3.47	0.0031
0.0120	±	0.0015	2	2013	+	1	2116	57.7%	0.0124	3.53	0.0020	3.45	0.0027	3.43	0.0030
0.0140	±	0.0015	2	2116	+	1	2116	57.4%	0.0144	3.53	0.0020	3.46	0.0027	3.43	0.0030
0.0150	±	0.0015	2	2116	+	1	2116	60.0%	0.0155	3.50	0.0020	3.43	0.0026	3.41	0.0029
0.0160	±	0.0015	2	1078	+	2	2116	63.3%	0.0166	3.45	0.0019	3.40	0.0025	3.37	0.0028
0.0180	±	0.0015	2	2116	+	2	2116	56.0%	0.0185	3.55	0.0021	3.47	0.0027	3.45	0.0030
0.0200	±	0.0025	2	2116	+	3	2116	51.0%	0.0204	3.63	0.0022	3.53	0.0029	3.51	0.0032
0.0310	±	0.0040	2	2116	+	4	2116	60.0%	0.0311	3.50	0.0020	3.43	0.0026	3.41	0.0029



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PREPREG:

Glass	RC%	2 GHz Dk	2 GHz Df	10 GHz Dk	10 GHz Df	40 GHz Dk	40 GHz Df	Thickness (inches)	Thickness (µm)
0106	75	3.31	0.0017	3.29	0.0021	3.27	0.0024	0.0021	53
0106	78	3.28	0.0017	3.27	0.0020	3.25	0.0023	0.0024	61
0106	80	3.26	0.0016	3.26	0.0020	3.23	0.0023	0.0027	67
1027	74	3.32	0.0017	3.30	0.0021	3.28	0.0024	0.0016	40
1035	72	3.34	0.0018	3.32	0.0022	3.30	0.0025	0.0022	57
1035	77	3.29	0.0017	3.28	0.0020	3.26	0.0023	0.0028	70
1035	79	3.27	0.0017	3.26	0.0020	3.24	0.0023	0.0030	77
1067	75	3.31	0.0017	3.29	0.0021	3.27	0.0024	0.0026	65
1067	77	3.29	0.0017	3.28	0.0020	3.26	0.0023	0.0028	71
1078	69	3.38	0.0018	3.35	0.0023	3.32	0.0026	0.0031	79
1078	72	3.34	0.0018	3.32	0.0022	3.30	0.0025	0.0035	89
1078	74	3.32	0.0017	3.30	0.0021	3.28	0.0024	0.0038	96
1078	78	3.28	0.0017	3.27	0.0020	3.25	0.0023	0.0045	115
1080	69	3.38	0.0018	3.35	0.0023	3.32	0.0026	0.0032	81
1080	74	3.32	0.0017	3.30	0.0021	3.28	0.0024	0.0038	96
2013	60	3.50	0.0020	3.43	0.0026	3.41	0.0029	0.0040	102
2013	62	3.47	0.0019	3.41	0.0025	3.39	0.0028	0.0043	109
2116	57	3.54	0.0020	3.46	0.0027	3.44	0.0030	0.0048	121
2116	60	3.50	0.0020	3.43	0.0026	3.41	0.0029	0.0052	132

These laminate and prepreg items are 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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