



Meteorwave 2000 – 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			68.5%	0.0020	3.23	0.0027	3.22	0.0032	3.21	0.0035	
0.0025	±	0.0005	1	1078			61.0%	0.0025	3.31	0.0028	3.30	0.0035	3.29	0.0038	
0.0030	±	0.0005	1	1078			67.0%	0.0030	3.25	0.0027	3.24	0.0033	3.22	0.0036	
0.0035	±	0.0005	1	2013			54.0%	0.0036	3.40	0.0029	3.39	0.0037	3.38	0.0040	
0.0040	±	0.0005	2	1035			68.5%	0.0041	3.23	0.0027	3.22	0.0032	3.21	0.0035	
0.0040	±	0.0005	1	2116			49.0%	0.0040	3.47	0.0030	3.46	0.0039	3.44	0.0042	
0.0045	±	0.0005	1	2116			54.0%	0.0046	3.40	0.0029	3.39	0.0037	3.38	0.0040	
0.0050	±	0.0007	1	2116			58.0%	0.0051	3.35	0.0028	3.34	0.0036	3.33	0.0039	
0.0050	±	0.0007	2	1078			61.0%	0.0050	3.31	0.0028	3.30	0.0035	3.29	0.0038	
0.0060	±	0.0007	2	1078			67.0%	0.0061	3.25	0.0027	3.24	0.0033	3.22	0.0036	
0.0060	±	0.0007	2	1080			67.0%	0.0062	3.25	0.0027	3.24	0.0033	3.22	0.0036	
0.0070	±	0.001	2	2013			54.0%	0.0071	3.40	0.0029	3.39	0.0037	3.38	0.0040	
0.0070	±	0.001	2	1035	+	1	1078	67.2%	0.0070	3.24	0.0027	3.24	0.0033	3.22	0.0036
0.0080	±	0.001	2	2013			59.0%	0.0082	3.34	0.0028	3.33	0.0035	3.31	0.0038	
0.0080	±	0.001	2	2116			49.0%	0.0081	3.47	0.0030	3.46	0.0039	3.44	0.0042	
0.0090	±	0.001	1	2116	+	1	2116	53.9%	0.0091	3.40	0.0029	3.39	0.0037	3.38	0.0040
0.0100	±	0.001	2	2116			58.0%	0.0102	3.35	0.0028	3.34	0.0036	3.33	0.0039	
0.0120	±	0.0015	2	2013	+	1	2116	55.7%	0.0122	3.38	0.0029	3.37	0.0037	3.35	0.0040
0.0140	±	0.0015	2	2116	+	1	2116	55.4%	0.0142	3.38	0.0029	3.37	0.0037	3.36	0.0040
0.0150	±	0.0015	2	2116	+	1	2116	58.0%	0.0153	3.35	0.0028	3.34	0.0036	3.33	0.0039
0.0160	±	0.0015	2	1078	+	2	2116	61.3%	0.0163	3.31	0.0028	3.30	0.0035	3.29	0.0038
0.0160	±	0.0015	4	2116			49.0%	0.0161	3.47	0.0030	3.46	0.0039	3.44	0.0042	



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0.0180	±	0.0015	2	2116	+	2	2116	53.9%	0.0183	3.40	0.0029	3.39	0.0037	3.38	0.0040
0.0200	±	0.0025	4	2116				58.0%	0.0204	3.35	0.0028	3.34	0.0036	3.33	0.0039
0.0240	±	0.0025	4	2116	+	1	2116	56.5%	0.0244	3.37	0.0029	3.36	0.0036	3.34	0.0039
0.0250	±	0.0025	5	2116				58.0%	0.0255	3.35	0.0028	3.34	0.0036	3.33	0.0039
0.0280	±	0.0025	5	2116	+	1	1078	58.9%	0.0285	3.34	0.0028	3.33	0.0035	3.31	0.0038
0.0300	±	0.0025	6	2116				58.0%	0.0305	3.35	0.0028	3.34	0.0036	3.33	0.0039

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	76	3.16	0.0026	3.15	0.0030	3.14	0.0033	0.0018	46.0
106	75	3.17	0.0026	3.16	0.0031	3.15	0.0034	0.0022	55.6
106	77	3.15	0.0026	3.14	0.0030	3.13	0.0033	0.0024	60.9
1067	72	3.20	0.0027	3.19	0.0031	3.17	0.0034	0.0024	60.1
1035	75	3.17	0.0026	3.16	0.0031	3.15	0.0034	0.0026	66.4
1035	77	3.15	0.0026	3.14	0.0030	3.13	0.0033	0.0029	72.8
1078	68	3.24	0.0027	3.23	0.0033	3.21	0.0036	0.0032	80.2
1078	70	3.22	0.0027	3.21	0.0032	3.19	0.0035	0.0034	86.2
1078	72	3.20	0.0027	3.19	0.0031	3.17	0.0034	0.0037	93.1
1078	75	3.17	0.0026	3.16	0.0031	3.15	0.0034	0.0042	105.4
1080	65	3.27	0.0027	3.26	0.0034	3.25	0.0037	0.0029	72.4
1080	72	3.20	0.0027	3.19	0.0031	3.17	0.0034	0.0037	93.1
2013	58	3.35	0.0028	3.34	0.0036	3.33	0.0039	0.0040	100.7
2013	61	3.31	0.0028	3.30	0.0035	3.29	0.0038	0.0043	109.8
2116	55	3.38	0.0029	3.38	0.0037	3.36	0.0040	0.0047	119.2
2116	60	3.32	0.0028	3.31	0.0035	3.30	0.0038	0.0054	136.9

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