



Meteorwave 8000 – 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	80 GHz Dk	80 GHz Df	
0.0012	±	0.0005	1	1027			70.0%	0.0021	3.35	0.0012	3.33	0.0017	3.33	0.0020	3.30	0.0028	
0.0020	±	0.0005	1	106			75.0%	0.0013	3.29	0.0012	3.28	0.0016	3.27	0.0019	3.25	0.0028	
0.0020	±	0.0005	1	1035			70.0%	0.0021	3.35	0.0012	3.33	0.0017	3.33	0.0020	3.30	0.0028	
0.0025	±	0.0005	1	1078			63.0%	0.0021	3.44	0.0013	3.42	0.0018	3.41	0.0021	3.39	0.0029	
0.0030	±	0.0005	1	1080			69.0%	0.0026	3.36	0.0012	3.34	0.0017	3.34	0.0020	3.31	0.0028	
0.0030	±	0.0005	1	1078			69.0%	0.0032	3.36	0.0012	3.34	0.0017	3.34	0.0020	3.31	0.0028	
0.0040	±	0.0005	2	1035			70.0%	0.0031	3.35	0.0012	3.33	0.0017	3.33	0.0020	3.30	0.0028	
0.0040	±	0.0005	2	106			75.0%	0.0041	3.29	0.0012	3.28	0.0016	3.27	0.0019	3.25	0.0028	
0.0040	±	0.0005	1	2013			61.0%	0.0042	3.47	0.0013	3.45	0.0018	3.44	0.0021	3.41	0.0029	
0.0045	±	0.0005	1	2116			56.0%	0.0041	3.55	0.0014	3.51	0.0019	3.51	0.0022	3.48	0.0030	
0.0045	±	0.0005	2	1035			74.0%	0.0046	3.30	0.0012	3.29	0.0016	3.28	0.0019	3.26	0.0028	
0.0050	±	0.0007	2	1035			76.0%	0.0048	3.27	0.0012	3.27	0.0016	3.26	0.0019	3.24	0.0027	
0.0050	±	0.0007	2	1078			63.0%	0.0052	3.44	0.0013	3.42	0.0018	3.41	0.0021	3.39	0.0029	
0.0055	±	0.0007	1	1035	+	1	1035	78.2%	0.0052	3.25	0.0011	3.24	0.0015	3.24	0.0018	3.21	0.0027
0.0055	±	0.0007	1	1078	+	1	1078	66.3%	0.0051	3.40	0.0013	3.38	0.0017	3.37	0.0020	3.35	0.0029
0.0060	±	0.0007	2	1078			69.0%	0.0062	3.36	0.0012	3.34	0.0017	3.34	0.0020	3.31	0.0028	
0.0060	±	0.0007	2	1035			80.0%	0.0064	3.23	0.0011	3.22	0.0015	3.22	0.0018	3.19	0.0027	
0.0070	±	0.001	2	2013			56.0%	0.0072	3.55	0.0014	3.51	0.0019	3.51	0.0022	3.48	0.0030	
0.0070	±	0.001	2	1078			73.0%	0.0072	3.31	0.0012	3.30	0.0016	3.29	0.0019	3.27	0.0028	
0.0080	±	0.001	2	2116			51.0%	0.0081	3.63	0.0014	3.59	0.0020	3.58	0.0023	3.56	0.0031	
0.0080	±	0.001	2	2013			61.0%	0.0083	3.47	0.0013	3.45	0.0018	3.44	0.0021	3.41	0.0029	
0.0090	±	0.001	1	2116	+	1	2116	56.0%	0.0092	3.55	0.0014	3.52	0.0019	3.51	0.0022	3.48	0.0030



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0.0100	±	0.001	2	2116			60.0%	0.0103	3.49	0.0013	3.46	0.0018	3.45	0.0021	3.43	0.0030	
0.0120	±	0.0015	2	2013	+	1	2116	57.7%	0.0123	3.52	0.0014	3.49	0.0018	3.48	0.0021	3.46	0.0030
0.0120	±	0.0015	3	2013				61.0%	0.0124	3.47	0.0013	3.45	0.0018	3.44	0.0021	3.41	0.0029
0.0140	±	0.0015	2	2116	+	1	2116	57.4%	0.0144	3.53	0.0014	3.49	0.0019	3.49	0.0022	3.46	0.0030
0.0150	±	0.0015	2	2116	+	1	2116	60.0%	0.0155	3.49	0.0013	3.46	0.0018	3.45	0.0021	3.43	0.0030
0.0160	±	0.0015	2	1078	+	2	2116	63.4%	0.0165	3.44	0.0013	3.41	0.0018	3.41	0.0021	3.38	0.0029
0.0160	±	0.0015	4	2116				51.0%	0.0163	3.63	0.0014	3.59	0.0020	3.58	0.0023	3.56	0.0031
0.0180	±	0.0015	2	2116	+	2	2116	56.0%	0.0185	3.55	0.0014	3.52	0.0019	3.51	0.0022	3.48	0.0030
0.0200	±	0.0025	2	2116	+	3	2116	51.0%	0.0204	3.63	0.0014	3.59	0.0020	3.58	0.0023	3.56	0.0031
0.0240	±	0.0025	2	2116	+	3	2116	57.7%	0.0285	3.52	0.0014	3.49	0.0018	3.48	0.0021	3.46	0.0030
0.0280	±	0.0025	7	2116				51.0%	0.0309	3.63	0.0014	3.59	0.0020	3.58	0.0023	3.56	0.0031
0.0300	±	0.0025	2	2116	+	4	2116	60.0%	0.0318	3.49	0.0013	3.46	0.0018	3.45	0.0021	3.43	0.0030

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	80 GHz Dk	80 GHz Df	Thickness (inches)	Thickness (µm)
1027	70	3.35	0.0012	3.33	0.0017	3.33	0.0020	3.3021	0.0028	0.0013	34.2
106	78	3.25	0.0012	3.25	0.0015	3.24	0.0018	3.2145	0.0027	0.0024	60.5
1067	77	3.26	0.0012	3.26	0.0016	3.25	0.0019	3.2249	0.0027	0.0028	70.6
1035	75	3.29	0.0012	3.28	0.0016	3.27	0.0019	3.2462	0.0028	0.0025	63.8
1035	79	3.24	0.0011	3.23	0.0015	3.23	0.0018	3.2041	0.0027	0.0030	76.9
1035	81	3.22	0.0011	3.21	0.0015	3.21	0.0018	3.1839	0.0027	0.0034	85.6
1078	69	3.36	0.0012	3.34	0.0017	3.34	0.0020	3.3138	0.0028	0.0031	79.0
1078	73	3.31	0.0012	3.30	0.0016	3.29	0.0019	3.2681	0.0028	0.0036	92.0
1078	75	3.29	0.0012	3.28	0.0016	3.27	0.0019	3.2462	0.0028	0.0039	100.0
1080	69	3.36	0.0012	3.34	0.0017	3.34	0.0020	3.3138	0.0028	0.0032	80.3
1080	73	3.31	0.0012	3.30	0.0016	3.29	0.0019	3.2681	0.0028	0.0037	93.4
2013	61	3.47	0.0013	3.45	0.0018	3.44	0.0021	3.4136	0.0029	0.0041	104.9
2116	57	3.53	0.0014	3.50	0.0019	3.49	0.0022	3.4685	0.0030	0.0047	120.5
2116	60	3.49	0.0013	3.46	0.0018	3.45	0.0021	3.4270	0.0030	0.0052	130.9

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