



Meteorwave 8300 – Dielectric Properties Table

LAMINATE:

Thickness	&	Tol.	Construction				RC%	Nominal Thickness (inch)	10 GHz Dk	10 GHz Df	40 GHz Dk	40 GHz Df
0.0020	±	0.0005	1	1035			64.0%	0.0021	2.90	0.0026	2.89	0.0029
0.0025	±	0.0005	1	1078			59.0%	0.0028	2.96	0.0027	2.95	0.0030
0.0030	±	0.0005	1	1078			62.0%	0.0030	2.93	0.0026	2.92	0.0029
0.0035	±	0.0005	1	1078			66.5%	0.0035	2.88	0.0026	2.87	0.0029
0.0040	±	0.0005	2	1035			64.0%	0.0041	2.90	0.0026	2.89	0.0029
0.0040	±	0.0005	1	1078			70.0%	0.0040	2.84	0.0026	2.83	0.0029
0.0045	±	0.0005	1	1035	1	1078	61.1%	0.0048	2.94	0.0026	2.93	0.0029
0.0050	±	0.0007	1	2013			61.0%	0.0051	2.94	0.0026	2.93	0.0029
0.0055	±	0.0007	2	1078			59.0%	0.0055	2.96	0.0027	2.95	0.0030
0.0060	±	0.0007	2	1078			62.0%	0.0061	2.93	0.0026	2.92	0.0029
0.0065	±	0.0007	1	2013	1	1035	60.5%	0.0068	2.94	0.0026	2.93	0.0029
0.0070	±	0.001	2	1078			66.5%	0.0071	2.88	0.0026	2.87	0.0029
0.0075	±	0.001	1	2013	1	1078	59.0%	0.0075	2.96	0.0027	2.95	0.0030
0.0080	±	0.001	2	1078			70.0%	0.0081	2.84	0.0026	2.83	0.0029
0.0085	±	0.001	1	2116	1	1078	59.0%	0.0089	2.96	0.0027	2.95	0.0030
0.0095	±	0.001	2	2013			59.0%	0.0095	2.96	0.0027	2.95	0.0030
0.0100	±	0.001	2	1078	1	2013	59.0%	0.0103	2.96	0.0027	2.95	0.0030
0.0100	±	0.001	2	2013			61.0%	0.0101	2.94	0.0026	2.93	0.0029
0.0110	±	0.001	2	2116			55.5%	0.0110	3.00	0.0027	2.99	0.0030
0.0120	±	0.0015	2	2116			59.0%	0.0122	2.96	0.0027	2.95	0.0030
0.0150	±	0.0015	3	2013			61.0%	0.0152	2.94	0.0026	2.93	0.0029



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0.0180	±	0.0015	3	2116			59.0%	0.0183	2.96	0.0027	2.95	0.0030
0.0200	±	0.0025	4	2013			61.0%	0.0202	2.94	0.0026	2.93	0.0029
0.0240	±	0.0025	4	2116			59.0%	0.0244	2.96	0.0027	2.95	0.0030
0.0280	±	0.0025	2	2013	3	2116	59.7%	0.0284	2.95	0.0026	2.94	0.0029
0.0300	±	0.0025	5	2116			59.0%	0.0305	2.96	0.0027	2.95	0.0030
0.0600	±	0.005	10	2116			59.0%	0.0611	2.96	0.0027	2.95	0.0030

PREPREG:

Glass	RC%	10GHz Dk	10GHz Df	40GHz Dk	40GHz Df	Thickness (inches)	Thickness (µm)
1027	74	2.81	0.0025	2.80	0.0028	0.0020	50.45
106	75	2.80	0.0025	2.79	0.0028	0.0026	66.69
106	80	2.75	0.0025	2.74	0.0028	0.0034	85.62
1035	70	2.84	0.0026	2.83	0.0029	0.0026	65.36
1035	74	2.81	0.0025	2.80	0.0028	0.0030	77.10
1035	77	2.78	0.0025	2.77	0.0028	0.0035	88.58
1035	82	2.74	0.0025	2.73	0.0028	0.0046	116.22
1078	70	2.84	0.0026	2.83	0.0029	0.0040	102.48

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:

North America +1.480.967.5600 • Europe +33.5.62.98.52.90 • Asia Pacific +65.686.17117

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Glass	RC%	10GHz Dk	10GHz Df	40GHz Dk	40GHz Df	Thickness (inches)	Thickness (µm)
1078	75	2.80	0.0025	2.79	0.0028	0.0050	126.40
1078	78	2.77	0.0025	2.76	0.0028	0.0057	145.98

Glass	RC%	10GHz Dk	10GHz Df	40GHz Dk	40GHz Df	Thickness (inches)	Thickness (µm)
*1035	63	2.92	0.0026	2.91	0.0029	0.0020	50.93
*1078	59	2.96	0.0027	2.95	0.0030	0.0028	70.38
*2013	59	2.96	0.0027	2.95	0.0030	0.0048	120.82
*2013	61	2.94	0.0026	2.93	0.0029	0.0051	128.52
*2116	59	2.96	0.0027	2.95	0.0030	0.0061	155.18

***NOTE:** prepreg in this table is not recommended for filling copper features greater than ½ oz.

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