



## ELL 102 - Dielectric Properties Table

LAMINATE:

Thickness	&	Tol.	Construction			Nominal Thickness (inch)	RC%	10 GHz Dk	10 GHz Df
0.0020	±	0.0005	1	1035		0.0020	67.0%	3.09	0.0010
0.0025	±	0.0005	1	1078		0.0026	60.0%	3.15	0.0012
0.0030	±	0.0005	1	1078		0.0031	66.0%	3.10	0.0011
0.0035	±	0.0005	1	1078		0.0035	70.0%	3.07	0.0010
0.0040	±	0.0005	2	1035		0.0039	67.0%	3.09	0.0010
0.0045	±	0.0005	2	1035		0.0046	71.0%	3.06	0.0010
0.0050	±	0.0007	2	1078		0.0051	60.0%	3.15	0.0012
0.0060	±	0.0007	2	1078		0.0061	66.0%	3.10	0.0011
0.0060	±	0.0007	2	1035		0.0062	78.0%	3.01	0.0009
0.0070	±	0.001	2	1078		0.0071	70.0%	3.07	0.0010
0.0080	±	0.001	3	1078		0.0081	62.0%	3.14	0.0011
0.0090	±	0.001	3	1078		0.0092	66.0%	3.10	0.0011
0.0100	±	0.001	3	1078		0.0099	68.0%	3.09	0.0010
0.0120	±	0.0015	4	1078		0.0123	66.0%	3.10	0.0011



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### PREPREG:

Glass	RC%	10GHz Dk	10GHz Df	Thickness (inches)	Thickness (µm)
1035	73	3.05	0.0009	0.0025	63.8
1035	76	3.03	0.0009	0.0029	72.7
1035	79	3.01	0.0008	0.0033	84.0
1078	66	3.10	0.0011	0.0031	79.1
1078	70	3.07	0.0010	0.0036	91.1
1078	73	3.05	0.0009	0.0040	102.4
1078	75	3.03	0.0009	0.0044	111.5

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

[agc-ml.digital-sales@agc.com](mailto:agc-ml.digital-sales@agc.com) • [www.agc-multimaterial.com](http://www.agc-multimaterial.com)