

Base Material Line Up



Autolad4G/Autolad4GB (Preliminary)

1. CORE (C-STAGE)

Thickness		ply-up	RC (%)	Dk				Df			
mm	mil			1 GHz	3 GHz	5 GHz	10 GHz	1 GHz	3 GHz	5 GHz	10 GHz
0.053	2.1	1×106	71	3.56	3.55	3.51	3.48	0.0082	0.0087	0.0093	0.0099
0.053	2.1	1×1037	73	3.52	3.51	3.46	3.44	0.0083	0.0088	0.0094	0.0100
0.053	2.1	1×1067	66	3.67	3.66	3.63	3.59	0.0079	0.0084	0.0090	0.0096
0.058	2.3	1×1078	55	3.91	3.90	3.89	3.84	0.0074	0.0079	0.0084	0.0090
0.064	2.5	1×1078	58	3.84	3.83	3.82	3.77	0.0075	0.0080	0.0085	0.0091
0.076	3.0	1×1086	60	3.80	3.79	3.77	3.73	0.0076	0.0081	0.0087	0.0093
0.089	3.5	1×1086	66	3.67	3.66	3.63	3.59	0.0079	0.0084	0.0090	0.0096
0.089	3.5	1×3313	51	4.00	3.99	3.98	3.93	0.0072	0.0077	0.0081	0.0087
0.102	4.0	1×3313	56	3.89	3.88	3.87	3.82	0.0074	0.0079	0.0084	0.0090
0.107	4.2	1×2116	49	4.04	4.03	4.02	3.98	0.0071	0.0076	0.0080	0.0086
0.127	5.0	1×2116	55	3.91	3.90	3.89	3.84	0.0074	0.0079	0.0084	0.0090
0.127	5.0	2×1080	58	3.84	3.83	3.82	3.77	0.0075	0.0080	0.0085	0.0091
0.163	6.4	1×1506	47	4.09	4.08	4.07	4.02	0.0070	0.0075	0.0079	0.0085
0.203	8.0	1×7628	45	4.14	4.13	4.12	4.07	0.0069	0.0074	0.0078	0.0084
0.254	10.0	2×2116	55	3.91	3.90	3.89	3.84	0.0074	0.0079	0.0084	0.0090
0.318	12.5	2×1506	47	4.09	4.08	4.07	4.02	0.0070	0.0075	0.0079	0.0085
0.381	15.0	2×7628	42	4.22	4.20	4.19	4.18	0.0066	0.0072	0.0076	0.0082
0.406	16.0	2×7628	45	4.14	4.13	4.12	4.07	0.0069	0.0074	0.0078	0.0084
0.533	21.0	3×7628	40	4.27	4.25	4.24	4.23	0.0065	0.0070	0.0075	0.0081
0.711	28.0	4×7628	40	4.27	4.25	4.24	4.23	0.0065	0.0070	0.0075	0.0081

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0.711	28.0	7×3313	55	3.91	3.90	3.89	3.84	0.0074	0.0079	0.0084	0.0090
0.787	31.0	4×7628	44	4.17	4.15	4.14	4.09	0.0068	0.0073	0.0077	0.0083

2. PREPREG (B-STAGE)

Glass type	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3GHz	5GHz	10GHz	1 GHz	3 GHz	5 GHz	10 GHz
1037	69	0.046	1.8	3.60	3.59	3.56	3.53	0.0081	0.0086	0.0092	0.0098
	71	0.049	1.9	3.56	3.55	3.51	3.48	0.0082	0.0087	0.0093	0.0099
	73	0.053	2.1	3.52	3.51	3.46	3.44	0.0083	0.0088	0.0094	0.0100
	75	0.058	2.3	3.47	3.46	3.42	3.39	0.0084	0.0089	0.0096	0.0102
106	69	0.048	1.9	3.60	3.59	3.56	3.53	0.0081	0.0086	0.0092	0.0098
	71	0.052	2.0	3.56	3.55	3.51	3.48	0.0082	0.0087	0.0093	0.0099
	73	0.056	2.2	3.52	3.51	3.46	3.44	0.0083	0.0088	0.0094	0.0100
	75	0.061	2.4	3.47	3.46	3.42	3.39	0.0084	0.0089	0.0096	0.0102
1067	69	0.059	2.3	3.60	3.59	3.56	3.53	0.0081	0.0086	0.0092	0.0098
	71	0.063	2.5	3.56	3.55	3.51	3.48	0.0082	0.0087	0.0093	0.0099
	73	0.069	2.7	3.52	3.51	3.46	3.44	0.0083	0.0088	0.0094	0.0100
	75	0.075	3.0	3.47	3.46	3.42	3.39	0.0084	0.0089	0.0096	0.0102
1078	65	0.079	3.1	3.69	3.68	3.65	3.62	0.0079	0.0084	0.0090	0.0096
	67	0.084	3.3	3.65	3.64	3.61	3.57	0.0080	0.0085	0.0091	0.0097
1080	64	0.080	3.1	3.71	3.70	3.68	3.64	0.0078	0.0083	0.0089	0.0095
	66	0.085	3.3	3.67	3.66	3.63	3.59	0.0079	0.0084	0.0090	0.0096
	68	0.092	3.6	3.63	3.62	3.58	3.55	0.0080	0.0085	0.0091	0.0097
3313	56	0.102	4.0	3.89	3.88	3.87	3.82	0.0074	0.0079	0.0084	0.0090
	58	0.110	4.3	3.84	3.83	3.82	3.77	0.0075	0.0080	0.0085	0.0091

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2116	51	0.115	4.5	4.00	3.99	3.98	3.93	0.0072	0.0077	0.0081	0.0087
	54	0.127	5.0	3.93	3.92	3.91	3.86	0.0073	0.0078	0.0083	0.0089
	56	0.133	5.2	3.89	3.88	3.87	3.82	0.0074	0.0079	0.0084	0.0090
7628	45	0.200	7.8	4.14	4.13	4.12	4.07	0.0069	0.0074	0.0078	0.0084

3. REMARK

- 1) Test method: TM 650 2.5.5.5.
- 2) Updated date: May, 2025.
- 3) All the values listed above are for your reference only. Please contact Shengyi Technology Co., Ltd. for detailed information. All rights from this line up are reserved by Shengyi Technology Co., Ltd.