



N4800-20 – Dielectric Properties Table

LAMINATE:

Thickness	&	Tol.	Construction							RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df			40 GHz Dk			40 GHz Df		
0.0020	±	0.0005	1	106						73%	3.44	±	0.07	0.0074	±	0.0004	3.42	±	0.07	0.0078	±	0.0001	3.42	±	0.068	0.0080	±	0.00006
0.0020	±	0.0005	1	1035						69%	3.50	±	0.07	0.0074	±	0.0004	3.48	±	0.07	0.0077	±	0.0001	3.47	±	0.066	0.0079	±	0.00006
0.0020	±	0.0005	1	1067						69%	3.50	±	0.07	0.0074	±	0.0004	3.48	±	0.07	0.0077	±	0.0001	3.47	±	0.066	0.0079	±	0.00006
0.0025	±	0.0005	1	1078						60%	3.65	±	0.09	0.0072	±	0.0005	3.63	±	0.09	0.0076	±	0.0001	3.62	±	0.093	0.0078	±	0.00008
0.0030	±	0.0005	1	1078						66%	3.55	±	0.06	0.0073	±	0.0004	3.53	±	0.06	0.0077	±	0.0001	3.52	±	0.061	0.0079	±	0.00005
0.0035	±	0.0005	1	2013						53%	3.78	±	0.09	0.0071	±	0.0005	3.76	±	0.09	0.0075	±	0.0001	3.75	±	0.089	0.0077	±	0.00008
0.0040	±	0.0005	2	106						73%	3.44	±	0.04	0.0074	±	0.0004	3.42	±	0.04	0.0078	±	0.0000	3.42	±	0.037	0.0080	±	0.00003
0.0040	±	0.0005	2	1067						69%	3.50	±	0.03	0.0074	±	0.0004	3.48	±	0.03	0.0077	±	0.0000	3.47	±	0.028	0.0079	±	0.00002
0.0040	±	0.0005	2	1035						69%	3.50	±	0.03	0.0074	±	0.0004	3.48	±	0.03	0.0077	±	0.0000	3.47	±	0.028	0.0079	±	0.00002
0.0040	±	0.0005	1	2116						48%	3.88	±	0.11	0.0070	±	0.0005	3.86	±	0.10	0.0074	±	0.0001	3.85	±	0.105	0.0076	±	0.00009
0.0040	±	0.0005	1	2013						58%	3.68	±	0.07	0.0072	±	0.0004	3.66	±	0.07	0.0076	±	0.0001	3.66	±	0.065	0.0078	±	0.00006
0.0040	±	0.0005	1	3313						58%	3.68	±	0.07	0.0072	±	0.0004	3.66	±	0.07	0.0076	±	0.0001	3.66	±	0.065	0.0078	±	0.00006
0.0050	±	0.0007	1	2116						56%	3.72	±	0.10	0.0071	±	0.0005	3.70	±	0.10	0.0075	±	0.0001	3.69	±	0.098	0.0077	±	0.00008
0.0050	±	0.0007	2	1078						60%	3.65	±	0.07	0.0072	±	0.0004	3.63	±	0.07	0.0076	±	0.0001	3.62	±	0.068	0.0078	±	0.00006
0.0060	±	0.0007	2	1078						66%	3.55	±	0.04	0.0073	±	0.0004	3.53	±	0.04	0.0077	±	0.0000	3.52	±	0.043	0.0079	±	0.00004
0.0070	±	0.001	2	2013						53%	3.78	±	0.09	0.0071	±	0.0005	3.76	±	0.09	0.0075	±	0.0001	3.75	±	0.089	0.0077	±	0.00008
0.0070	±	0.001	1	7628						43%	4.00	±	0.14	0.0068	±	0.0006	3.98	±	0.14	0.0073	±	0.0001	3.97	±	0.139	0.0075	±	0.00012
0.0075	±	0.001	1	7628						46%	3.93	±	0.12	0.0069	±	0.0005	3.91	±	0.12	0.0073	±	0.0001	3.90	±	0.120	0.0075	±	0.00010
0.0080	±	0.001	4	1078						53%	3.78	±	0.06	0.0071	±	0.0005	3.76	±	0.06	0.0075	±	0.0000	3.75	±	0.057	0.0077	±	0.00005
0.0080	±	0.001	2	1078	+	1	106			68%	3.52	±	0.04	0.0073	±	0.0004	3.50	±	0.04	0.0077	±	0.0000	3.49	±	0.044	0.0079	±	0.00004
0.0080	±	0.001	2	2013						58%	3.68	±	0.07	0.0072	±	0.0004	3.66	±	0.07	0.0076	±	0.0001	3.66	±	0.065	0.0078	±	0.00006
0.0080	±	0.001	2	2116						48%	3.88	±	0.11	0.0070	±	0.0005	3.86	±	0.10	0.0074	±	0.0001	3.85	±	0.105	0.0076	±	0.00009



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Thickness	&	Tol.	Construction						RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df			40 GHz Dk			40 GHz Df			
0.0090	±	0.001	1	2116	+	1	2116			52%	3.79	±	0.09	0.0071	±	0.0005	3.77	±	0.09	0.0075	±	0.0001	3.76	±	0.089	0.0077	±	0.00008
0.0100	±	0.001	2	2116						56%	3.72	±	0.08	0.0071	±	0.0005	3.70	±	0.08	0.0075	±	0.0001	3.69	±	0.078	0.0077	±	0.00007
0.0100	±	0.001	2	2116	+	1	1078			49%	3.86	±	0.08	0.0070	±	0.0005	3.84	±	0.08	0.0074	±	0.0001	3.83	±	0.077	0.0076	±	0.00007
0.0120	±	0.0015	2	1078	+	1	7628			50%	3.84	±	0.09	0.0070	±	0.0005	3.82	±	0.09	0.0074	±	0.0001	3.81	±	0.092	0.0076	±	0.00008
0.0140	±	0.0015	1	7628	+	1	7628			43%	4.00	±	0.12	0.0068	±	0.0006	3.98	±	0.12	0.0073	±	0.0001	3.97	±	0.118	0.0075	±	0.00010
0.0140	±	0.0015	1	7628	+	2	2013			48%	3.88	±	0.09	0.0070	±	0.0005	3.86	±	0.09	0.0074	±	0.0001	3.85	±	0.088	0.0076	±	0.00008
0.0150	±	0.0015	2	7628						46%	3.93	±	0.10	0.0069	±	0.0005	3.91	±	0.10	0.0073	±	0.0001	3.90	±	0.095	0.0075	±	0.00008
0.0160	±	0.0015	2	2116	+	1	7628			49%	3.86	±	0.07	0.0070	±	0.0005	3.84	±	0.07	0.0074	±	0.0001	3.83	±	0.070	0.0076	±	0.00006
0.0170	±	0.0015	2	2116	+	1	7628			52%	3.81	±	0.06	0.0070	±	0.0005	3.79	±	0.06	0.0074	±	0.0000	3.78	±	0.058	0.0076	±	0.00005
0.0170	±	0.0015	2	7628	+	1	1078			47%	3.91	±	0.08	0.0069	±	0.0005	3.89	±	0.08	0.0074	±	0.0001	3.88	±	0.079	0.0076	±	0.00007
0.0180	±	0.0015	2	7628	+	1	2013			46%	3.93	±	0.08	0.0069	±	0.0005	3.91	±	0.08	0.0073	±	0.0001	3.90	±	0.082	0.0075	±	0.00007
0.0210	±	0.002	2	7628	+	1	7628			44%	3.98	±	0.08	0.0069	±	0.0005	3.96	±	0.08	0.0073	±	0.0001	3.95	±	0.080	0.0075	±	0.00007
0.0220	±	0.002	3	7628						46%	3.93	±	0.07	0.0069	±	0.0005	3.91	±	0.07	0.0073	±	0.0001	3.90	±	0.069	0.0075	±	0.00006
0.0240	±	0.002	2	2116	+	2	7628			48%	3.88	±	0.08	0.0070	±	0.0005	3.86	±	0.08	0.0074	±	0.0001	3.85	±	0.082	0.0076	±	0.00007
0.0280	±	0.002	2	7628	+	2	7628			43%	4.00	±	0.09	0.0068	±	0.0005	3.98	±	0.09	0.0073	±	0.0001	3.97	±	0.087	0.0075	±	0.00008
0.0310	±	0.003	4	7628	+	1	1078			45%	3.95	±	0.09	0.0069	±	0.0005	3.93	±	0.09	0.0073	±	0.0001	3.92	±	0.093	0.0075	±	0.00008
0.0450	±	0.003	2	7628	+	4	7628			46%	3.93	±	0.07	0.0069	±	0.0005	3.91	±	0.07	0.0073	±	0.0001	3.90	±	0.069	0.0075	±	0.00006
0.0590	±	0.003	6	7628	+	2	7628			45%	3.94	±	0.06	0.0069	±	0.0005	3.92	±	0.06	0.0073	±	0.0000	3.91	±	0.057	0.0075	±	0.00005
0.0600	±	0.003	2	7628	+	6	7628			46%	3.93	±	0.06	0.0069	±	0.0005	3.91	±	0.05	0.0073	±	0.0000	3.90	±	0.055	0.0075	±	0.00005

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)
1027	75	3.41	0.0074	3.40	0.0078	3.39	0.0080	0.0017
106	77	3.38	0.0075	3.37	0.0078	3.36	0.0080	0.0025
106	80	3.34	0.0075	3.33	0.0078	3.32	0.0080	0.0029
1035	73	3.44	0.0074	3.42	0.0078	3.42	0.0080	0.0025
1035	78	3.37	0.0075	3.36	0.0078	3.35	0.0080	0.0032
1067	77	3.38	0.0075	3.37	0.0078	3.36	0.0080	0.0030
1078	67	3.53	0.0073	3.51	0.0077	3.51	0.0079	0.0032
1078	72	3.46	0.0074	3.44	0.0077	3.43	0.0079	0.0039
1080	67	3.53	0.0073	3.51	0.0077	3.51	0.0079	0.0031
1080	72	3.46	0.0074	3.44	0.0077	3.43	0.0079	0.0038
2013	61	3.63	0.0072	3.61	0.0076	3.60	0.0078	0.0045
3313	60	3.65	0.0072	3.63	0.0076	3.62	0.0078	0.0045
2116	57	3.70	0.0071	3.68	0.0075	3.67	0.0077	0.0051
7628	47	3.90	0.0069	3.88	0.0074	3.87	0.0076	0.0077

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