TerraGreen® 400GE

Halogen-free, Ultra Low Loss Material

Revision No: D | April 24, 2026

Dielectric Constant(Dk) / Dissipation factor (Df) Table

Core Data

Construction	Resin Content %	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)			
					10 GHz	15 GHz	20 GHz	30 GHz
1x1035	63.50%	Standard	0.0020	0.051	3.37 0.0026	3.36 0.0026	3.35 0.0026	3.34 0.0026
1x1035	66.50%	Standard	0.0023	0.058	3.32 0.0026	3.31 0.0026	3.30 0.0026	3.29 0.0026
1x1035	69.50%	Standard	0.0025	0.064	3.27 0.0026	3.26 0.0026	3.25 0.0026	3.24 0.0026
1x1078	61.00%	Standard	0.0030	0.076	3.41 0.0026	3.40 0.0026	3.39 0.0026	3.38 0.0026
1x1078	65.50%	Standard	0.0035	0.089	3.33 0.0026	3.32 0.0026	3.31 0.0026	3.30 0.0026
2x1035	63.50%	Standard	0.0040	0.102	3.37 0.0026	3.36 0.0026	3.35 0.0026	3.34 0.0026
1x3313	53.00%	Standard	0.0040	0.102	3.56 0.0027	3.55 0.0027	3.54 0.0027	3.53 0.0027
2x1035	66.50%	Standard	0.0045	0.114	3.32 0.0026	3.31 0.0026	3.30 0.0026	3.29 0.0026
2x1035	69.50%	Standard	0.0050	0.127	3.27 0.0026	3.26 0.0026	3.25 0.0026	3.24 0.0026
1x2116	52.00%	Standard	0.0050	0.127	3.58 0.0027	3.57 0.0027	3.56 0.0027	3.55 0.0027
2x1078	61.00%	Standard	0.0060	0.152	3.41 0.0026	3.40 0.0026	3.39 0.0026	3.38 0.0026
2x1078	65.50%	Standard	0.0070	0.178	3.33 0.0026	3.32 0.0026	3.31 0.0026	3.30 0.0026
2x3313	53.00%	Standard	0.0080	0.203	3.56 0.0027	3.55 0.0027	3.54 0.0027	3.53 0.0027
2x2116	52.00%	Standard	0.0100	0.254	3.58 0.0027	3.57 0.0027	3.56 0.0027	3.55 0.0027
3x2116	52.00%	Standard	0.0150	0.381	3.58 0.0027	3.57 0.0027	3.56 0.0027	3.55 0.0027

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Prepreg Dielectric Constant(Dk) / Dissipation factor (Df) Table

Prepreg Data

Glass	Resin Content %	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)			
					10 GHz	15 GHz	20 GHz	30 GHz
1035	63.5%	Standard	0.0020	0.051	3.37 0.0026	3.36 0.0026	3.35 0.0026	3.34 0.0026
1035	66.5%	Standard	0.0023	0.058	3.32 0.0026	3.31 0.0026	3.30 0.0026	3.29 0.0026
1035	69.5%	Standard	0.0025	0.064	3.27 0.0026	3.26 0.0026	3.25 0.0026	3.24 0.0026
1035	72.5%	Standard	0.0028	0.071	3.22 0.0025	3.21 0.0025	3.20 0.0025	3.19 0.0025
1078	61.0%	Standard	0.0030	0.076	3.41 0.0026	3.40 0.0026	3.39 0.0026	3.38 0.0026
1078	65.5%	Standard	0.0035	0.089	3.33 0.0026	3.32 0.0026	3.31 0.0026	3.30 0.0026
1078	69.5%	Standard	0.0040	0.102	3.27 0.0026	3.26 0.0026	3.25 0.0026	3.24 0.0026
1078	72.0%	Standard	0.0044	0.112	3.23 0.0025	3.22 0.0025	3.21 0.0025	3.20 0.0025
3313	58.0%	Standard	0.0046	0.117	3.47 0.0027	3.46 0.0027	3.45 0.0027	3.44 0.0027
3313	62.0%	Standard	0.0053	0.133	3.39 0.0026	3.38 0.0026	3.37 0.0026	3.36 0.0026
2116	58.5%	Standard	0.0060	0.152	3.45 0.0026	3.44 0.0026	3.43 0.0026	3.42 0.0026
2116	61.5%	Standard	0.0065	0.165	3.40 0.0026	3.39 0.0026	3.38 0.0026	3.37 0.0026

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NOTE

Revisions:
A-Original-3/23
B-Adjusted RC%, Dk and Df values to match test data -7/23
C-Added 0.015" core - 4/26
D-Added 0.010" core - 4/26
All TerraGreen 400GE glass is Spread Weave in both directions
Standard-Commonly available
Alternate-Available, but not stocked

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