

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	30 GHz D
1x1035	65.00%	Standard	0.002	0.051	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.10 0.0019	2.90 0.0019
1x1035	71.00%	Standard	0.0025	0.064	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x1078	63.00%	Standard	0.003	0.076	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0019
1x1078	68.00%	Standard	0.0035	0.089	3.20 0.0019	3.20 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x1027/1x1035	67.00%	Alternate	0.0035	0.089	3.20 0.0019	3.20 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x1078	71.00%	Standard	0.004	0.102	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
2x1035	65.00%	Standard	0.004	0.102	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0019
1x1035/1x1067	65.00%	Alternate	0.004	0.102	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0019
1x3313	57.00%	Standard	0.004	0.102	3.40 0.0020	3.40 0.0020	3.30 0.0020	3.30 0.0020	3.10 0.0020
2x1035	68.00%	Standard	0.0045	0.114	3.20 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x1067/1x1035	68.00%	Alternate	0.0045	0.114	3.20 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x1078	74.00%	Alternate	0.0045	0.114	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x3313	61.00%	Standard	0.0045	0.114	3.30 0.0019	3.30 0.0019	3.20 0.0019	3.20 0.0019	3.10 0.0019
2x1035	71.00%	Standard	0.005	0.127	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x1035/1x1067	72.00%	Alternate	0.005	0.127	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019
1x3313	64.00%	Standard	0.005	0.127	3.30 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0019
2x1078	63.00%	Standard	0.006	0.152	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0019
2x1078	68.00%	Standard	0.007	0.178	3.20 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0019

2x3313	57.00%	Standard	0.008	0.203	3.40 0.0020	3.40 0.0020	3.30 0.0020	3.30 0.0020	3.10 0.0020
3x1078	65.00%	Standard	0.01	0.254	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0019

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

Prepreg Data

Glass	Resin Content %	Offering	Thickness (mils)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)			
					10 GHz	15 GHz	20 GHz	30 GHz
1035	65.0%	Standard	0.0020	0.051	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017
1035	71.0%	Standard	0.0025	0.064	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017
1035	75.0%	Standard	0.0030	0.076	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017
1078	63.0%	Standard	0.0030	0.076	3.20 0.0018	3.20 0.0018	3.20 0.0018	3.20 0.0018
1078	67.5%	Standard	0.0035	0.089	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017
1078	71.0%	Standard	0.0040	0.102	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017
1078	74.0%	Standard	0.0045	0.114	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017
1080	74.5%	Standard	0.0046	0.117	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017
3313	60.5%	Standard	0.0045	0.114	3.10 0.0018	3.10 0.0018	3.10 0.0018	3.10 0.0018
3313	64.5%	Standard	0.0051	0.130	3.30 0.0018	3.30 0.0018	3.30 0.0018	3.30 0.0018
3313	67.5%	Standard	0.0057	0.145	3.30 0.0017	3.30 0.0017	3.30 0.0017	3.30 0.0017
2116	60.5%	Standard	0.0058	0.147	3.20 0.0018	3.20 0.0018	3.20 0.0018	3.20 0.0018
2116	63.5%	Standard	0.0064	0.163	3.30 0.0018	3.30 0.0018	3.30 0.0018	3.30 0.0018

NOTE

ALL DATA IS PRELIMINARY AND SUBJECT TO CHANGE AS ADDITIONAL DATA BECOMES AVAILABLE

Revisions:

A-Original-4/17

All TerraGreen 400G glass is Spread Weave in both directions

Standard-Commonly available

Alternate-Available, but not stocked

Isola, the Isola logo, Astra, Chronon, GETEK, I-Fill, IsoDesign, IsoStack, I-Speed, I-Tera, Polyclad, Stratus, TerraGreen, and The Base for Innovation are registered trademarks or trademarks of ISOLA USA Corp. in the United States and in other countries. Copyright © 2021 Isola Group. All rights reserved.