

TerraGreen® 400G

Halogen-free, Extremely Low Loss Material Tg 210°C Td 400°C Dk 3.05 Df 0.0018

UL - File Number E41625

TerraGreen® 400G laminate materials are our most advanced ultra high speed, halogen free ultra low loss design solution.

PRODUCT FEATURES

PRODUCT AVAILABILITY

TerraGreen® 400G is our Halogen Free material solution for next generation 5G infrastructure and computing applications. Our novel resin system has been engineered for high data rates with excellent cost for loss performance.

TerraGreen® 400G is lead free compatible and can be processed utilizing standard PCB equipment and processing steps.

TerraGreen® 400G meets UL 94 V-0 and is halogen free.

PRODUCT ATTRIBUTES







TYPICAL MARKET APPLICATIONS







ORDERING INFORMATION:

Contact your local sales representative or contact info@isola-group.com for further information.

Isola Group

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Typical Values Table

Property		Typical Value	Units	Test Method
			Metric (English)	IPC-TM-650 (or as noted)
Glass Transition Temperature (Tg) by DMA		210	_	2.4.24.4
Glass Transition Temperature (Tg) by TMA		180	°C	2.4.24C
Decomposition Temperature (Td) by TGA @ 5% weight loss		400	°C	2.4.24.6
Time to Delaminate by TMA (Copper removed)	T288	60+	Minutes	2.4.24.1
Z-Axis CTE		2.8	ppm/°C	2.4.24C
X/Y-Axis CTE		14-23	ppm/°C	2.4.24C
Thermal Stress 10 sec @ 288°C (550.4°F)	A. Unetched B. Etched	Pass	Pass Visual	2.4.13.1
Dk, Permittivity	A. @ 5 GHz B. @ 10 GHz C. @ 20 GHz	3.05	_	Bereskin Stripline
Df, Loss Tangent	A. @ 5 GHz B. @ 10 GHz C. @ 20 GHz	0.0018	-	Bereskin Stripline
Peel Strength	Low profile copper foil and very low profile copper foil all copper foil >17 Im [0.669 mil]	0.65 (3.9)	N/mm (lb/inch)	2.4.8C
Flammability (Laminate & laminated prepreg)		V-0	Rating	UL 94
Relative Thermal Index (RTI)		130	°C	UL 796

NOTES

Notes:

All data is preliminary and subject to change

* Data was developed using 55% RC rigid laminate

Revisions

A: Preliminary Release

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