



IPC-4101 /20 UL - File Number E41625

The A11 family of no-flow prepregs consists of proprietary resin systems specifically formulated for optimal performance in bonding applications requiring minimal resin flow and consistency in lamination.

PRODUCT FEATURES

Industry Recognition

- UL File Number: E41625
- RoHS Compliant

Processing Advantages

- Complete encapsulation of non-planar surfaces
- Cure and form bond at low temperatures
- Allows for lamination at non-uniform pressures
- Adhesion to wide range of materials
- Flex films (Mylar®, Kapton®, etc.)
- Treated or untreated copper
- Plated metals (tin, solder, nickel, etc.)
- · Conventional laminate surfaces

PRODUCT AVAILABILITY

Standard Material Offering: Prepreg

- Roll or panel form
- Tooling of prepreg panels

Glass Fabric Availability

E-glass

A11 products bring the fabricator specific thermal characteristics appropriate for use in heat sink bonding, die cavity board (direct chip attachment) and multilayer rigid-flex applications.

PRODUCT ATTRIBUTES



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 Metric (English)	Test Method IPC-TM-650 (or as noted)
Pressed Thickness	A. 104 B. 108	2.0 3.7	mm (mil)	-
Resin Content	A. 104 B. 108	75 65	%	2.3.16.2
Resin Flow Testing	A. 104 B. 108	2	_	2.3.17
Modified Circle Flow	A. 104 B. 108	0.010 - 0.100	_	-
Glass Transition Temperature (Tg) by DSC		100	°C	2.4.25C
Decomposition Temperature (Td) by TGA @ 5% weight loss		300	°C	2.4.24.6
Cure Temperature Recommended for Full Cure		171	_	_
Min. for Functional Bonding		149	_	_
Z-Axis CTE		80	ppm/°C	2.4.24C
X/Y-Axis CTE		18/16	ppm/°C	2.4.24C
Thermal Conductivity		0.25	W/m·K	ASTM E1952
Dk, Permittivity	@ 1 GHz	4.5	-	2.5.5.9
Df, Loss Tangent	@ 1 GHz	0.033	-	2.5.5.9
Dielectric Breakdown		80	kV	2.5.6B
Peel Strength	1 oz. EDC foil	9.0	N/mm (lb/inch)	2.4.8C
Flammability (Laminate & laminated prepreg)		НВ	Rating	UL 94

NOTES

Visit our site http://www.isola-group.com for more details.

Revisions:

A:Initial Release - 4/17

B:Corrected glass type PT,RC,RF 1080 to 108 - 3/19

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