

TF T2122F

THERMALLY CONDUCTIVE FILM

TECHNICAL DATA

October, 2011

Product Description

TechFilm T2122F is a high performance thermally conductive B-staged film adhesive specially formulated for bonding to hard to bond substrates. T2122F will cure at temperatures above 90°C and features good chemical, heat, and moisture resistance.

APPLICATIONS	FEATURES	RECOMMENDED SUBSTRATES
<ul style="list-style-type: none"> • Board assembly 	<ul style="list-style-type: none"> • Thermally conductive • B-staged film • Chemical, heat, moisture resistant 	<ul style="list-style-type: none"> • Hard to bond substrates • Plastics

CURED PROPERTIES*		
Property	Value	Test Method
Color	Cream	Visual
Specific Gravity	1.9	TFTEST002B
Glass Transition Temperature, C	81	ASTM E1545
Thermal Conductivity, W/m-K	0.41	Estimated
Volume Resistivity @25C, Ohm-cm	>1.0 x 10 ¹²	ASTM D257

LAP SHEAR STRENGTH*		
Property	Value	Test Method
to PEEK @ 25C, psi	400	ASTM D1002*
to ULTEM @ 25C, psi	1100	ASTM D1002*
to Nickel @ 25C, psi	2300	ASTM D1002*
to Aluminum @ 25C, psi	2525	ASTM D1002
to FR4 @ 25C, psi	3300	ASTM D1002*
to 316 SS @ 25C, psi	5900	ASTM D1002*
to 101 Copper @ 25C, psi	4300	ASTM D1002*
to 260 Brass alloy @ 25C, psi	5300	ASTM D1002*

*Performed on 0.25" thick substrate

CURE SCHEDULE*		
Property	Value	Test Method
Cure Time @ 120C, min	60	Typical Cure Schedule
Cure Time @ 150C, min	20	Alternate Cure Schedule
Cure Time @ 120C plus 150C, min	10 plus 15	Alternate Cure Schedule
Cure Time @ 100C, min	120	Alternate Cure Schedule
Cure Time @ 90C, min	240	Alternate Cure Schedule

Storage: Store in dry conditions, out of sunlight and in tightly sealed containers.

Shelf Life: 24 hours @ 20°C Two months @ -10°C One year @ -40°C

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