

# I2300F

## ELECTRICALLY INSULATIVE FILM

**TECHNICAL DATA** Feb-15

### Product Description

I2300F is a high performance B-staged film adhesive developed for higher temperature applications. It features a relatively high flow, a high glass transition temperature. It also features good chemical, heat, and moisture resistance. I2300F will cure at temperatures above 160°C.

APPLICATIONS	FEATURES	RECOMMENDED SUBSTRATES
<ul style="list-style-type: none"> <li>• High Temperature Resistance</li> <li>• Automotive</li> </ul>	<ul style="list-style-type: none"> <li>• Chemical, heat, moisture resistant</li> <li>• All purpose adhesive</li> </ul>	<ul style="list-style-type: none"> <li>• Aluminum</li> </ul>

UNCURED PROPERTIES*		
Property	Value	Test Method
Weight Loss, TGA, 20C/min, N <sub>2</sub> , %	@ 150C: 0.05	ASTM D3850 and MIL-STD-883
	@ 200C: 0.15	

CURED PROPERTIES*		
Property	Value	Test Method
Color	Amber	Visual
Specific Gravity	0.99	ASTM D790
Glass Transition Temperature, C	>190	ASTM E1356
Alpha 1 (below Tg)	85	ASTM E831
Alpha 2 (above Tg)	290	ASTM E831
Volume Resistivity at 25°C Ohm-cm	>2 x10 <sup>15</sup>	ASTM D257

TENSILE SHEAR STRENGTH*		
Property	Value	Test Method
to Aluminum @ 25C, psi	2400	ASTM D1002
to Nickel @ 25C, psi	900	ASTM D1002
to PEEK @ 25C, psi	360	ASTM D1002*
to ULTEM @ 25C, psi	650	ASTM D1002*

\* Tested using 0.188" thick substrates

CURE SCHEDULE*		
Property	Value	Test Method
Cure Time @ 180C, min	60	Typical Cure Schedule

**Storage:** Store in dry conditions, out of sunlight and in tightly sealed containers.  
**Shelf Life:** One month @ 20C Three months @ 10C Six months @ -20C One year @ -40C

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