

I2301F

ELECTRICALLY INSULATIVE FILM

TECHNICAL DATA April, 2014

Product Description

I2301F is a high performance B-staged film adhesive developed for higher temperature applications, requiring low flow. It features a high glass transition temperature. It also features good chemical, heat, and moisture resistance.

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

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

CURED PROPERTIES*		
Property	Value	Test Method
Color	Amber	Visual
Specific Gravity	2.1	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 ¹⁵	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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