



**Product Overview**

P<sup>2</sup>SI XLC-01 structural supported film and paste adhesive was developed for 500-550°F service environment use temperatures and a cure temperature of 600-620°F.

Based on P<sup>2</sup>SI developed *Liquimide™* technology, XLC-01 adhesive is a **low volatile** addition cure polyimide suitable for wide area structural bonding. Unlike other condensation type polyimide adhesives available, *Liquimide™* based adhesives provide a breakthrough in polyimide technology, providing adhesives with more epoxy-like processing characteristics, low volatiles, good tack and drape, and high temperature oxidative and hygrothermal durability.

**Key Features**

- **Low volatiles (5-10%)**
- **Glass transition temperature of 600°F after a 620°F cure**
- **Suitable for wide area bonding and vacuum bag only cure operations**
- **No carcinogenic components**
- **Can be bonded in the zero volatile condition**
- **Double notch shear strength in excess of 7000 psi**
- **Single overlap shear strength in excess of 2500 psi**

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**Durability and Performance**

**P<sup>2</sup>SI XLC-01 Physical/Thermal Properties**

Property	Value
Glass Transition Temperature (DSC, 10°C/min)	316°C (600°F)
Supported Film Volatile Content	8%
Supported Film Weight	0.15 psf

**P<sup>2</sup>SI XLC-01 Single Overlap Shear Strength (T650-35/8HS/P<sup>2</sup>SI 635LM Adherends)**

Exposure Condition	Test Temperature	
	23°C (73°F)	260°C (500°F)
Control	2712 ± 194 psi	1675 ± 390 psi
288°C (550°F) for 1000 h in air	1617 ± 273 psi	1830 ± 383 psi
60°C/95-100%RH for 1000h (tested in wet condition)	X	1489 ± 303 psi

**P<sup>2</sup>SI XLC-01 Double Notch Shear Strength (8" x 8" Area, T650-35/8HS/AFRPE<sup>®</sup>-4 Adherends)**

Exposure Condition	Test Temperature
Control	7110 ± 780 psi

**Important Notice**

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