



L&L BOND XP-0012

Crash-Toughened Pumpable Structural Adhesive.

L&L Bond XP-0012 is a single-component heat-activated, crash-toughened structural adhesive that was developed to bond various substrates, including metals, composites, and where residual lubricant may be present.

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Pumpable Structural Adhesive.

The unique formulation has been developed to exhibit superior fracture toughness and environmental exposure (i.e., humidity and salt spray) resistance, especially for multi-material and high strength steel bonding.



KEY PRODUCT ATTRIBUTES



HIGH STRENGTH

- Superior initial (uncured) adhesion to a wide range of substrates
- High peel strength



DESIGN FLEXIBILITY

- Bonds dissimilar metals



PROCESS OPTIMIZATION

- Pumpable format
- Reduces welds and mechanical fasteners



ECONOMICAL

- Quick & easy manual application

KEY FEATURES

- Developed to bond various substrates, including metals, composites, and where residual lubricant may be present
- Material is developed for reducing spot, MIG and stitch welds

0%

Volumetric Expansion

32 MPa

Lap Shear Strength¹
ISO 4587

1500 MPa

Tensile Modulus²
ISO 527

38 MPa

Tensile Strength²
ISO 527

8%

Tensile Elongation²
ISO 527

12 N/mm

T-Peel Strength³
ISO 11339

47 N/mm

Wedge Impact Peel Strength⁴

- 1.6mm clean EG-60, 3mm bond line, 25.4mm overlap, 50.8 mm/min test rate - cured at 160°C for 30 min.
- JISK 6301 shape dumbbell, 3 mm cured thickness, 5 mm/min test rate - cured at 160°C for 30 min.
- 0.8 mm clean EG-60, 1.5 mm bond line, 25.4 mm width, 50.8 mm/min test rate.
- 1.0 mm HX340 Z100LAD, 0.25 mm bondline, 2.5-3.0 mg/in² Anticor 3802-395 Cure: 20 min @160°C followed by 30 min @ 180°C

