

**SOLUTION**

L&amp;L Bond

**VERSION**

April 2021

# Structural Adhesives for Composite Technologies

## Innovative, custom adhesives for joining composites.

L&L Products formulates a range of innovative, custom adhesive solutions for composite technologies.

The structural adhesives portfolio features a unique combination of material properties making L&L an ideal choice for joining composites. L&L's adhesives come in either film, paste or tape form and will adhere in a variety of temperature environments.

**FST AND NON-FST STRUCTURAL ADHESIVE PASTES**

Two-component, toughened structural adhesives that cure at room temperature and are used for easy and clean assembly of composite parts.

- FST regulation compliant adhesives
  - FAR 25.853, ABD0031
- 1:1 and 2:1 mix ratio for easy working conditions
- Gel times from 5 to 90 minutes

**T-LINK™ TRANSPARENT FILM**

Our T-Link™ film is a dry-to-the-touch, engineering thermoplastic adhesive that demonstrates 99% optical clarity, therefore, does not disrupt intended color and allows for light transmission where applicable.

- Repairable / formable
- High strength, rigidity and toughness
- High strain-to-failure – up to 50%
- Solid and dry-to-the touch at room temperature
- High elongation at break
- Storage at room temperature

#### **STRUCTURAL ADHESIVE TAPES**

We offer a wide range of tacky structural adhesives in tape form that are principally epoxy-based and heat-activated. The tapes have the ability to bond areas of the vehicle where there is limited weld accessibility, varying design gaps and requirements to join dissimilar substrates. When bonding dissimilar substrates, L&L's tapes can be designed to manage coefficient of thermal expansion ( $\Delta$ CTE) differences while maintaining substrate separation to prevent galvanic corrosion.

All structural adhesive tapes are 0.5 – 3.0mm, have a variety of expansion rates, and can be supplied in tape form or die-cut.



#### **STRUCTURAL ADHESIVE PASTES**

In order to meet customer needs, we have expanded our adhesive offerings by formulating a series of innovative one-component, heat-cured adhesives and two-component, room-temperature cured structural adhesives.

Many of our structural adhesive pastes demonstrate low odor, improved worker safety, low shrinkage, excellent mechanical properties, and fire resistance attributes. Pastes also have the ability to bond many different substrates.

