



Solutions for Composite Technologies.



Whether its airplanes, armor, automobiles or sporting goods, a common need among all industries is lightweight, yet high strength and durable products.

L&L provides a variety of materials to help achieve these specific needs.

Our Products

- Structural adhesives
- Acoustic and thermal management solutions
- Structural reinforcements

Our Services

- Full-service engineering
- Structural and aerodynamic analysis: FEA
- Acoustic analysis

Adhesive Solutions

L&L's range of adhesives are supplied in a variety of forms including films, pastes and tapes and either cure once exposed to heat or will activate at room temperature.

FST and non-FST structural adhesive pastes: epoxy-based or acrylate-based two-component toughened adhesives that activate and cure at room temperature. L&L's two-component adhesives are used for easy and clean assembly of composite parts.

Our adhesive pastes offer robust primerless adhesion on various substrates ranging from - but not limited to - common composites, metals and fiberglass.



T-Link™ Film: 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.

It is an ideal matrix as it is a high performing, yet cost-effective solution when compared to traditional thermosets. Our T-Link™ film can be processed with traditional press equipment, has a short cycle time for bonding, does not require refrigeration, and has a long shelf life. Additionally, it has a low odor and is paintable.

Acoustic Solutions

L&L engineers acoustic solutions for composite technologies in order to reduce the amount of airborne and structural borne noise while minimizing weight.

DECI-TEX® sound absorber: vertically lapped fiber-based materials used for acoustic and thermal management. DECI-TEX® is supplied in sheets or die-cut parts to act as an additional layer in a composite part.



Reinforcement Solutions

L&L's reinforcement solutions are epoxy-based, high-strength, durable solutions that activate once exposed to elevated temperatures. Our reinforcement solutions are either used to enhance the layup of composites or used as local reinforcements.

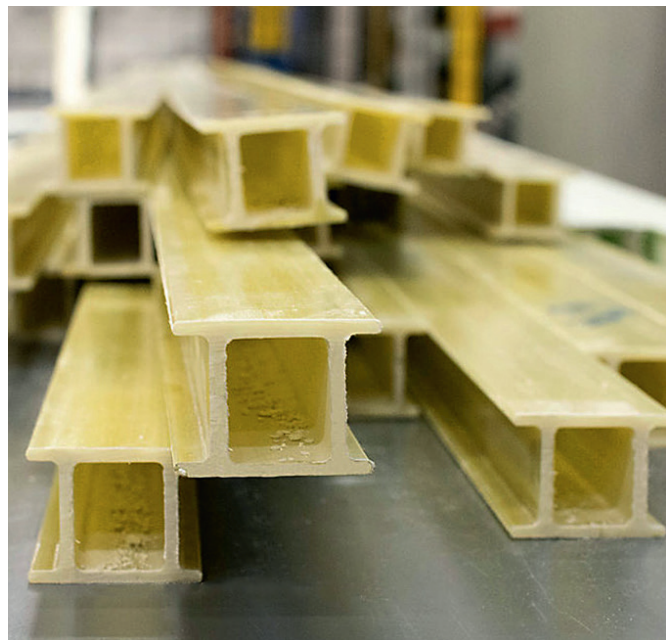
Continuous Composite Systems (CCS): a fiber-reinforced pultruded composite carrier with highly engineered sealants and adhesives in a two-dimensional profile. The system is designed to provide strength, stiffness, and rigidity to a lightweight structure.

CCS enables a cost-effective reinforcement solution that brings extensive engineering knowledge and advanced CAE modeling offering improved strength-to-weight ratio compared to metals. Furthermore, the product is distinguished by the ability to combine our adhesives and reinforce products to provide an optimized solution.

Composite Body Solutions (CBS): enable lightweight body structures without compromising overall performance of the application. The technology combines a highly engineered structural adhesive material (also known as structural foam) that is heat-activated and expandable, with a thermoplastic carrier. We thereby create a tailor-made reinforcement solution that strengthens specific areas of a structure.

CBS technology often reduces the complexity of an application, enabling our customers to save weight and costs due to less stamping dies for metallic parts. At the same time, the product provides increased stiffness and safety.

Fire Smoke & Toxicity (FST) Foaming Adhesives: epoxy-based materials readily used to fill mismatched areas, splice or reinforce honeycomb panels. FST foaming adhesives are also used to close out the edges of composite panels.



Composite panel stiffener: an epoxy-based, high expandable structural adhesive contained within a fiberglass reinforcement. It is designed to address stiffness (panel rigidity), NVH (excessive panel vibration and noise) and weight.

Honeycomb Panel Reinforcements: lightweight, epoxy-based materials developed to allow honeycomb cores to be readily reinforced in strategic areas without adding unnecessary weight.

Engineered Innovation.

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