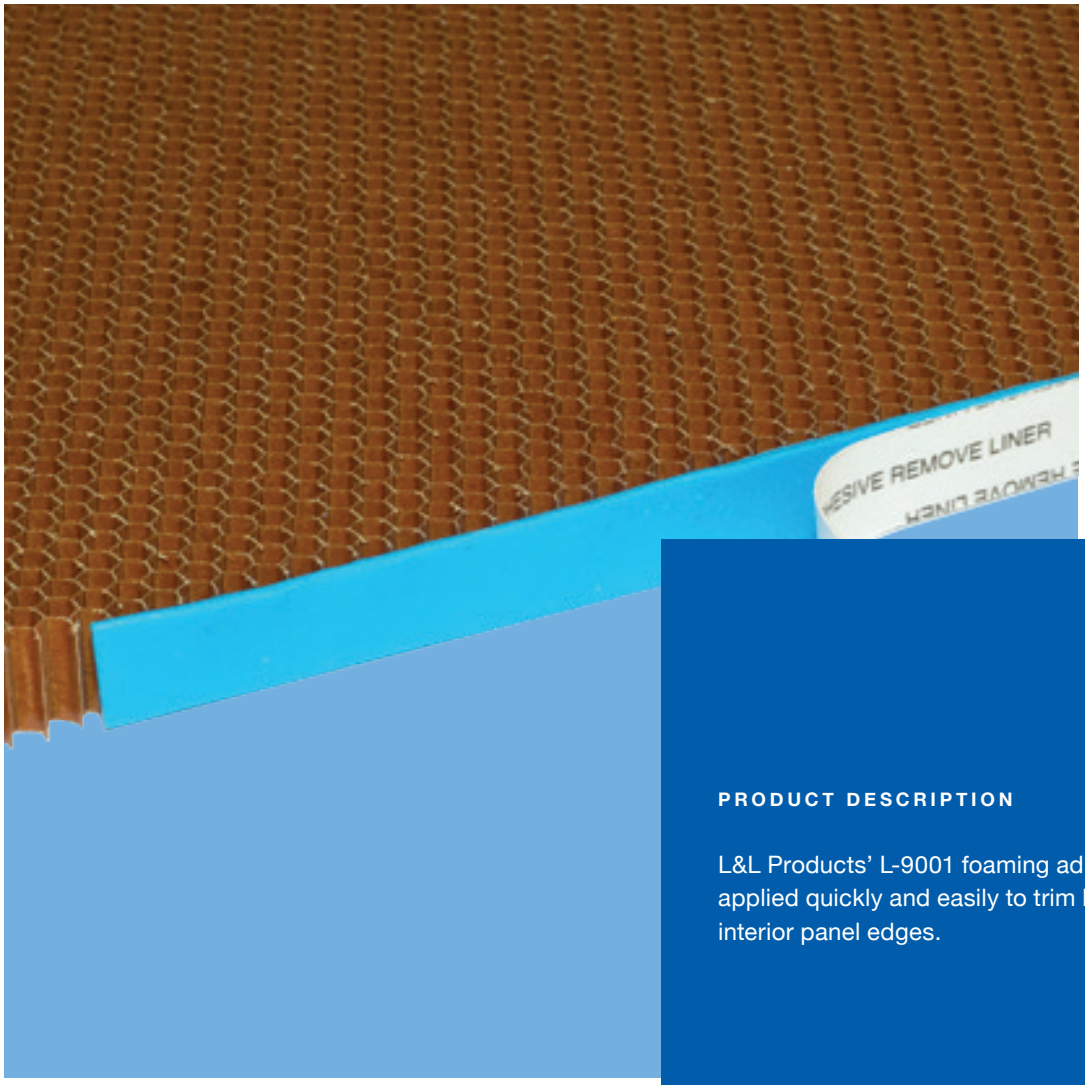
L&L Products

TECHNICAL DATA SHEET

SOLUTION
L&L Bond

VERSION
January 2022

L-9001
FST Foaming Adhesive Technology.



FST

PRODUCT DESCRIPTION

L&L Products' L-9001 foaming adhesive can be applied quickly and easily to trim honeycomb interior panel edges.

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Product Description

L&L Products' foaming adhesives have been developed for a range of honeycomb core finishing operations. In addition to core splicing they can be readily used for edge close out and radius enhancement.

Different formulations are available to provide full compatibility with the processing methods (autoclave, oven and press) and the cure cycles used in the manufacture of aircraft interiors.

Depending on the cure schedule chosen, L-9001 will expand up to 160%.

L&L foaming adhesives are available in both sheet form and as extruded beads.

The sheet material can be supplied in thicknesses from 1 to 10 mm (0.05 in. – 0.4 in.). The extruded material is available in round or square cross sections in order to more accurately meet any specific geometry parameters. Their tacky nature means that no additional adhesive is required to pre-bond to the honeycomb.

Key Product Attributes

- FST regulations compliant - FAR 25,853, ABD0031
- Lightweight
- Smooth curing, reduced post processing machining
- Thermo-foaming materials
- Multiple final densities available
- Compatible with a broad range of honeycombs, phenolic and epoxy prepregs
- Pressure sensitive adhesive

Typical Application Areas

- Core splicing
- Edge close out
- Local edge reinforcement
- Radius enhancement
- Void filling

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Technical Data

The following information and data should be considered typical and should not be used for specification.

		Cure Cycle	L-9001	Test Method
Physical Properties	Color		White	
	Uncured Density		1.2 g/cm³ / 77 lbs/ft³	
	Expansion		up to 160%	
Mechanical Properties	Compressive Strength (RT)	20 min @120°C / 250°F	13 MPa / 1,884 psi	ASTM D695
	Compressive Modulus (RT)	20 min @120°C / 250°F	0.6 GPa / 87 Ksi	
	Tube Shear (RT)	60 min @125°C / 257°F	12 MPa / 1,740 psi	DIN EN2667-2
Fire Properties	Vertical Burn 60 s		Pass	FAR 25.853(a), App. F part I(a)(1)(i)
	Smoke Density		Pass	FAR 25.853(d) App. F part V(b)
	Smoke Toxicity		Pass	ABD0031
	Qualifications		CDM212-00	

Optimal Curing Cycles

Press Cure: 160°C (320°F) for 15 min.

Other curing cycles: please contact us (expansion rate can vary depending curing cycle).

Shelf Life & Storage Conditions

Shelf Life: 2 years from date of manufacture when stored at 0°C (32°F) or below.

Handle with care at low temperature as the material can be brittle. Before use, let the material reach room temperature in its sealed packaging to avoid moisture uptake. Best handling around room temperature.

Health & Safety

Consult product specific Safety Data Sheet.

All of our products are developed with REACH compliance.