



SOLUTION
L&L Bond

VERSION
January 2022

L-9100™ Series

FST Room Temperature Cure Adhesive Technology.



PRODUCT DESCRIPTION

L&L Products L-9100™ series of epoxy-based, interior adhesives have been developed to bond various substrates that are common to the aerospace industry.

These two component toughened adhesives cure at room temperature and provide high performance bonding.

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Designed for interior applications, they meet the latest FAA fire regulations (vertical burn, smoke density, and toxicity).

The adhesives are available in different open time versions that allow for a work life from 5 minutes to one hour, to fit the required application processes.

They can be supplied in twin-barrel cartridges, pails, or drums.

Key Product Attributes

- FST regulation compliant - FAR 25.853, ABD0031
- High strength bonding
- Can be used in a wide range of temperatures

Typical Application Areas

- Panel assembly
- Insert bonding
- Bracket bonding
- Honeycomb cut & fold fabrication

Technical Data

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

		XP-9105**	L-9115	L-9150
Physical Properties	Appearance	Off-white, viscous liquid	Off-white, viscous liquid	Off-white, viscous liquid
	Working Time	4-8 min (10 gram sample)	10-20 minutes (10 gram sample)	35-50 min (10 grams sample)
	Cured Density	1.12 g/cc	1.30 g/cc	1.24 g/cc
	Mix Ratio	1:1	1:1	1:1
Mechanical Properties	Lap Shear on etched 2024 T3 Al cured 24 hours at 25°C		>15MPa (2175 psi)*	>16 MPa (2300 psi)
	Lap Shear on BR-127 Primed Al cured 24 hours at 23°C	>15 MPa (2175 psi)	>16MPa (2300 psi)*	>16 MPa (2300 psi)
Fire Properties	FAA Vertical Burn 12 s FAR 25.853 App. F Part I (a) (ii)	Pass	Pass	Pass
	FAA Vertical Burn 60 s FAR 25.853 App. F Part I (a) (i)		Pass	Pass
	FAA Smoke Density FAR 25.853 (d) Appendix F, Part V		Pass	Pass
	Toxicity (Flaming) ABD0031, AITM 3-0005, Issue 2		Pass	Pass

*27°C (81°F).

**Material starting with letter "L" are commercialized materials. Materials starting with letters "XP" are experimental: the properties for the XP materials are targets.