



SOLUTION
L&L Reinforce

VERSION
August 2020

L-9016

FST Aircraft interior core splice compound.



PRODUCT DESCRIPTION

L&L Reinforce L-9016 is a fire, smoke, and toxicity (FST) compliant compound developed for core splice applications for fast press-curing or crush core processes.

Key Product Attributes

- Can be cured from 125°C to 165°C with or without ramp up
- 110% to 200% expansion depending on the curing cycle
- Stable at room temperature for 6 months and does not require frozen storage or shipment
- Has low tack for easy removal of release paper and an easy positioning within the tool
- Compliant to 12s and 60s vertical burn, smoke density and smoke toxicity tests accordingly to FAR/EASA 25.853 and Airbus ABD 0031
- Delivered in 560x300mm sheets, 1.27mm thick, other dimensions on request

Technical Data

		L-9016	Typical Values		Test Method			
Physical Properties	Prior to Activation	Weight per unit area	1650 – 1950 g/m²					
		Thickness	1.2 – 1.4 mm					
		Storage stability at room temperature (shelf-life)	6 months					
		Storage stability at -18°C (shelf-life)	12 months					
	Curing Cycle							
	During Curing	Volatile content	3°C/min	< 0,5 %	EN 2667-3			
		Vertical slump	+ 55 min @ 125°C	< 0.5 mm	EN 2667-4			
		Exothermicity		< 80°C	EN 2667-5			
			Curing Cycle	Expansion Ratio (EN 2667-3)	Shore D Hardness (EN ISO 868)			
	Expansion and Hardness		Ramp 3°C/min + 55 min @ 125°C	110 – 160%	55 – 65			
			30 min @ 100°C + (ramp 3°C/min + 55 min @ 125°C)	100 – 150%	55 – 65			
			15 min @ 165°C Hot in / Hot out	155 – 205%	38 – 48			
			30 min @ 155°C Hot in / Hot out	150 – 200%	38 – 48			
		Curing Cycle	Test Temperature	Sample Density	Test Method			
Mechanical Properties	Compressive strength	3°C/min + 55 min @125°C	-55°C	0.54 g/cm³	12 MPa	ISO 604		
			+23°C		7 MPa			
			+85°C		5 MPa			
	Compressive modulus		-55°C		450 MPa			
			+23°C		380 MPa			
			+85°C		260 MPa			
	Compressive tube shear strength		-55°C		0.80 g/cm³		10 MPa	EN 2667-2
			+23°C				7 MPa	
			+85°C				6 MPa	

		Curing Cycle	Property	Specification		Test Method	
FST Properties	Vertical burn – 12 s – 6.35 mm sample thickness	3°C/min + 55 min @125°C	Burn length	Maximum 200 mm	< 80 mm	AITM 2-0002 B	
			After flame time	Maximum 15 s	0 s		
			After flame time of drips	Maximum 5 s	No drips		
	Vertical burn – 60 s – 6.35 mm sample thickness		Burn length	Maximum 150 mm	< 140 mm	AITM 2-0002 A	
			After flame time	Maximum 15 s	6 s		
			After flame time of drips	Maximum 3 s	No drips		
	Smoke density – 6.35 mm sample thickness		Smoke density	Maximum 200	140	AITM 2-0007 A	
	Curing cycle		Gas	Specification		Test Method	
	Smoke toxicity – 6.35 sample thickness		3°C/min + 55 min @125°C	CO	< 1000 ppm	300 ppm	AITM 3-0005
				HF	< 100 ppm	0 ppm	
HCl		< 150 ppm		0 ppm			
NOx		< 100 ppm		55 ppm			
SO ₂		< 100 ppm		5 ppm			
HCN		< 150 ppm		20 ppm			

Typical Cure Schedule

165°C for 15 minutes total time.

Shelf Life & Storage Conditions

Shelf Life: 6 months at room temperature, 12 months at -18°C in the original sealed bags.

Health & Safety

Consult product specific Safety Data Sheet. All our products are REACH compliant and do not contain CMR substances.