

LTM® 45 series

Epoxy; Epoxide

Cytec Industries Inc.

Message:

LTM® 45 series prepregs consists of a range of low temperature curing epoxy matrix resins giving prepregs with elevated end use temperature performance and good hot and wet strength retention. The range encompasses LTM45 with an initial cure temperature of 50°C (122°F). All the resins within the range exhibit similar thermo-mechanical performance when fully cured.

LTM45 and LTM45-EL are the most commonly selected prepreg resin systems from this range.

For improved oven vacuum processing LTM45-1 is recommended as an alternative to LTM45EL when used with carbon fabrics up to 285g/m². LTM45- 1 provides improved toughness and compression properties, please refer to PDS1082.

General Information		
Filler / Reinforcement	Aramid Fiber	
	Carbon Fiber	
	Glass Fiber	
Features	Autoclavable	
	Fast Cure	
	Good Strength	
	Heat Cure	
	High Heat Resistance	
Forms	High Temperature Strength	
Processing Method	4x4 Twill Prepreg	
Physical	Nominal Value	Unit
Specific Gravity ¹	1.20 to 1.21	g/cm ³
Thermal	Nominal Value	Unit
Glass Transition Temperature		
-- ²	65.0	°C
-- ³	180	°C
NOTE		
1.	Cured resin	
2.	TMA, LTM45 24 hours at 50°C (122°F)	
3.	TMA, 24 hours at 50°C (122°F) + 2 hours at 180°C (356°F)	

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