

LTM® 123

Thermoset, Unspecified

Cytec Industries Inc.

Message:

LTM123 is a low temperature curing, toughened cyanate ester component prepreg developed for structural applications requiring ultimate dimensional stability in a space environment. Its low moisture absorption and low electrical permittivity characteristics also make it suitable for radomes and radar absorbing structures. LTM123 is also suitable for high service temperature structural applications in the motorsport market.

LTM123 can be processed using autoclave and oven vacuum bag methods to produce low voidage composites and can be moulded off a range of low cost tooling with few constraints on structure dimensions.

For space applications, LTM 123 can develop a Tg of 140°C (284°F) after a minimum initial cure at 80°C (176°F) and a free-standing post-cure of 120°C (248°F)

For motorsport applications, LTM 123 can develop a Tg of 250°C (482°F) after a minimum initial cure at 80°C (176°F) and free-standing post-cure of 240°C (464°F)

General Information		
Filler / Reinforcement	Aramid Fiber	
	Carbon Fiber	
	Glass Fiber	
Features	Autoclavable	
	Good Dimensional Stability	
	Good Toughness	
	Heat Cure	
	High Heat Resistance	
	Humidity Resistant	
Uses	Aerospace Applications	
	Automotive Applications	
Forms	Fabric	
Physical	Nominal Value	Unit
Specific Gravity ¹	1.19	g/cm ³
Electrical	Nominal Value	
Dielectric Constant (14.0 GHz)	2.77	
Cured Properties	Nominal Value	Unit
Linear Shrinkage ²	0.020	%
NOTE		
1.	Cured resin	
2.	After 200°C (392°F) post-cure	

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