

LTM® 317-1B

Epoxy; Epoxide

Cytec Industries Inc.

Message:

LTM® 317-1B is an epoxy resin matrix specifically developed for the production of 150°C (302°F) capable mould tooling using vacuum bag processing. LTM317-1B, which can be supplied in both standard prepreg and ZPREG® selectively impregnated formats, offers 65°C (149°F) initial cure capability, long out life and, after post-cure, resistance to thermal cycling up to 150°C (302°F). LTM317-1B can be used in combination with LTF318B ZPREG® selective impregnation technology surface films and with LTS317 syntactic plies to achieve a high quality surface finish by vacuum-bag processing, thereby creating many new practical possibilities for the manufacture of affordable, high quality, composite tooling.

General Information		
Filler / Reinforcement	Carbon Fiber Glass Fiber	
Features	Good Surface Finish Good Thermal Aging Resistance Heat Cure	
Uses	Tooling	
Forms	2x2 Twill Prepreg	
Processing Method	Vacuum Forming	
Physical	Nominal Value	Unit
Specific Gravity		
-- 1	0.850	g/cm ³
-- 2	1.23	g/cm ³
-- 3	1.25	g/cm ³
Shrinkage		
-- 4	0.11 to 0.15	%
-- 5	0.054 to 0.072	%
Void Content ⁶	< 1.0	%
Thermal	Nominal Value	Unit
Glass Transition Temperature		
-- 7	80.0	°C
-- 8	170	°C
CLTE - Flow		
-- 9	4.3E-6 to 4.8E-6	cm/cm/°C
-- 10	1.2E-5 to 1.4E-5	cm/cm/°C
NOTE		
1.	LTS 317	
2.	LTM317-1B	
3.	LTF318B	

4.	Glass, In-plane
5.	Carbon, In-plane
6.	Standard autoclave
7.	DMA E' onset, 16 hours at 65°C (149°F)
8.	DMA E' onset, Post-cured at 2 hours at 180°C (356°F)
9.	Carbon
10.	Glass

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