SHD COMPOSITE MATERIALS INC 203 McKenzie Road Mooresville NC 28117

www.shdcomposites.com

Tel: +1 (704) 6266876 us-sales@shdcomposites.com



LTC250-2XL

Epoxy Component Prepreg

Introduction

LTC250-2XL Prepreg is designed to cure at low temperatures whilst giving you increased outlife over other low-cure systems and great flexibility in component manufacture. It is a toughened epoxy resin system that can be supplied on a variety of fabrics to meet your cost and manufacturing requirements.

Typical applications: General purpose - Visual

Key Features & Benefits

- Cure temperature from 120°F to 170°F
- Service temperature up to 260°F after post cure
- Low CTE and shrinkage
- Work life at 70°F: 5 days
- Storage life at 0°F: 12 months
- Very low VOC content no added solvents during manufacture

Storage & Out Life

This material should be kept frozen at 0°F. It must be kept sealed in a polythene bag which must not be opened until fully thawed to room temperature. If the material is not fully used, then the material must be resealed in the polythene bag to prevent moisture absorption.

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Cure Cycles & performances

Recommended Initial cure: 140°F for 14h, at a ramp rate of 2°F/min

• Recommended Post cure: 250°F for 1h, at a ramp rate of 2°F/min

Cure		Initial Min Cure		Tg
120°F	(minimum)	40	hours	130°F
140°F		14	hours	150°F
150°F		8	hours	160°F
170°F	(maximum)	4	hours	175°F
250°F	Post cure	1	hours	265°F

- Curing Schedule is meant to be a guide only and is subject to local conditions.
- To avoid exotherm particular care must be taken with thick laminates.
 Ramp rates must not exceed 5°F per minute during initial cure.
 Ramp rates must not exceed 1°F per minute during post cure (free standing).

Volatile content	< 1.0%		
Fibre volume fraction	50 to 60%		
Voidage (autoclave cure)	< 1.0%		

Cured Material Properties

Test	Results		Standard
DMA	Tg – Storage Modulus Onset	266 °F	ASTM D7028
	Tg – Tan δ Peak	291 °F	

Data obtained after a 250°F, 1h post cure.

Revised: 23rd January 2018

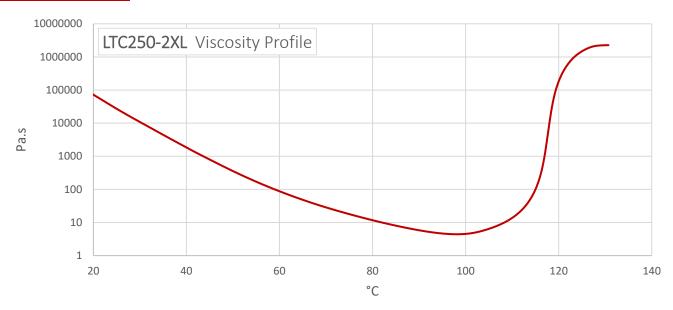
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Viscosity Profile



Health and Safety

This material contains epoxy resin which can cause allergic reactions with skin contact and must avoid repeated and prolonged skin contact.

Please refer to the product Safety Data Sheet before using this material. The following precautions must be taken when using epoxy resin prepregs:

- Overalls must be worn.
- Impervious gloves must be worn.
- Curing schedule is meant to be as a guide only and is subject to local conditions.
- To avoid exotherm, particular care must be taken with thick laminates.
- Ramp rates must not exceed 5°F/min during initial cure and 1°F/min during post cure.

Disclaimer: Technical advice, instruction, data or recommendation, whether verbal or in writing, is given in good faith. The SHD company providing any such advice gives no warranty or guarantee, whether express or implied, in relation to such advice.

Customers must carry out their own tests and assessments as necessary in order to determine the quality and suitability of the product for their particular application and circumstances. Such testing should be performed under conditions identical to those to which the final component/product may be subjected. Values listed in any SHD document are for typical properties of the product or substance in question and are not intended to be used in establishing either statistical specifications nor engineering basis values. They do not constitute either minimum or maximum values for the product or substance in question.