SHD COMPOSITE MATERIALS INC 203 McKenzie Road Mooresville NC 28117

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VTC410

Epoxy Component Prepreg

Introduction

VTC410 is an epoxy resin system designed to combine high Tg with the potential for rapid curing. It cures from 150°F to 285°F, allowing flexibility in component manufacture. It can be supplied on a variety of fabrics to meet your cost and manufacturing requirements.

Typical applications: Higher service temperature

Key Features & Benefits

- Cure temperature from 150°F to 285°F
- Service temperature up to 355°F
- Low CTE and shrinkage
- Work life at 70°F: 21 days
- Storage life at 0°F: 12 months
- Very low VOC content no added solvents during manufacture
- Excellent surface finish
- Snap cure available for hot press moulding consult SHD for details

Storage & Out Life

Revised: 20th July 2022

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

CURE CYCLE OPTIONS:

Temperature		Duration		Tg
150°F	(minimum)	16	hours	160°F
175°F		4	hours	185°F
250°F		1	hour	265°F
285°F	(maximum)	15	mins	300°F
355°F	Post Cure	8	hours	375°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).

Cured Material Properties

Contact SHD for additional data.

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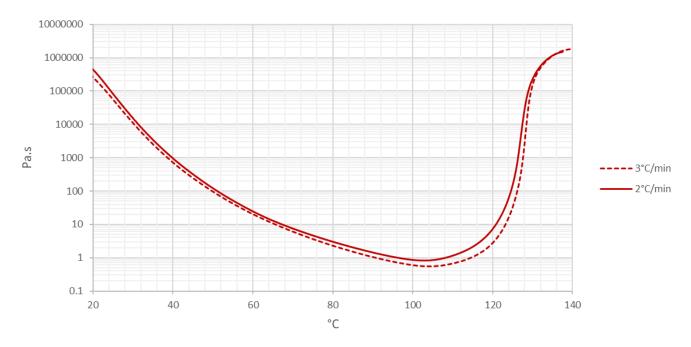
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Viscosity Profile

Testing carried out using a rotational rheometer



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.

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