

Snap Cure Epoxy Prepreg System

RP570

Snap Cure resin system 4 minute cure at 140°C

Applications

- Automotive
- Motorsport
- Marine
- Defence

Processing Methods

- Pressing
- Autoclave

TDS0009





Description

RP570 Snap Cure prepreg system is a high performance formulated epoxy resin system with rapid Tg development enabling extremely short process times and excellent aesthetic finish. A press tool held at constant temperature of 140°C can produce a part every 4 minutes ready for painting. RP570 can be supplied on a variety of woven fabrics.

Key Features & Benefits

- Fully cured and demouldable in 4 minutes at 140°C
- Tg >140°C
- Excellent surface finish
- No thermal cycling of tools required
- Fast Tg development
- Can be preformed

Cure Cycle

Carefully place prepreg preforms in 140°C preheated hot tool. Close tool under 10 bar pressure and maintain 140°C temperature. Release pressure after 4 minutes and remove cured part.

Storage Conditions

- 2 years at -18°C
- 1 years at 5°C
- 60 days at 20°C

Note:

Health and Safety: Refer to the full Material Safety Datasheet before use.



Mechanical Properties

Mechanical Properties are based on 140°C, at 10 bar pressure.

Product: C0462/T300B/1250

Fibre	Carbon	
Fabric Weave Style	Twill 2/2	
Fibre type	T300B	
Fabric weight (g/m²)	245	
Resin content (%)	42	
DMA Tg by E' Onset (°C)	116.3	
DMA Tg by Tanδ Peak (°C)	144	
Tensile Strength (MPa)	ISO 527-1	684
Tensile Modulus (GPa)		73.8
Interlaminar shear strength (ILSS) (MPa)	ISO 14130	75.8
Flexural Strength (MPa)	ISO 14125	989
Flexural Modulus (Gpa)		59

All values are nominal.

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