

### Snap Cure Epoxy Prepreg System

## RP570

Snap Cure resin system 4 minute cure at 140°C

#### Applications

- Automotive
- Motorsport
- Marine
- Defence

#### Processing Methods

- Pressing

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. RP-570 can be supplied on a variety of woven fabrics.

## Key Features & Benefits

- Cures and is 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

- 6 months at -18°C
- 30 days at 23°C

### **Note:**

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



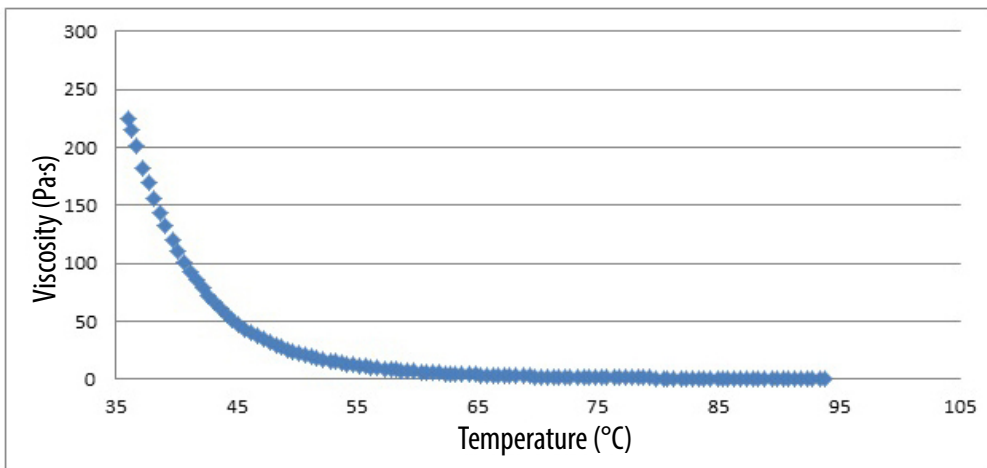
## Mechanical Properties

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

### Product: RP570C0462TR30SM421000

<b>Fibre</b>	Carbon	
<b>Fabric Weave Style</b>	Twill 2/2	
<b>Fibre type</b>	TR30s-3K	
<b>Fabric weight (g/m<sup>2</sup>)</b>	245	
<b>Resin content (%)</b>	42	
<b>Fibre volume fraction Vf (%)</b>	48	
<b>DSC Tg (°C)</b>	140	
<b>DMA onset Tg (°C)</b>	131	
<b>DMA peak Tg (°C)</b>	155	
<b>Tensile Strength (MPa)</b>	ASTM D3039	840.4
<b>Tensile Modulus (GPa)</b>	ASTM D3039	63.1
<b>Interlaminar shear strength (ILSS) (MPa)</b>	EN ISO 14130	66.9
<b>Flexural Strength (MPa)</b>	EN ISO 178	948.2

## Viscosity



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