

Product Data

Prepreg Systems



Snap Cure Epoxy Prepreg System

RP570

Snap Cure resin system 4 minute cure at 140°C

Applications

- Automotive
- Motorsport
- Marine
- Defence

Processing Methods

- Pressing





Description

RP-570 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

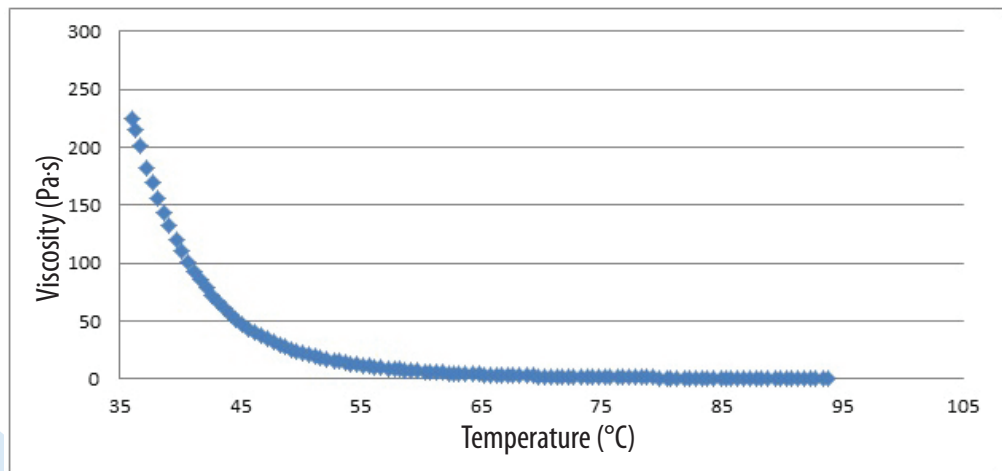


Mechanical Properties

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

RP570C0462TR30SM421000		
Fibre	Carbon	
Fabric weave style	Twill 2/2	
Fibre type	TR30s -3K	
Fabric weight (g/m ²)	245	
Resin content (%)	42	
Fibre volume fraction Vf (%)	48	
DSC Tg (°C)	140	
DMA onset Tg (°C)	131	
DMA peak Tg (°C)	155	
Tensile strength (MPa)	ASTM D3039	840.4
Tensile modulus (GPa)	ASTM D3039	63.1
Interlaminar shear strength (ILSS) (MPa)	EN ISO 14130	66.9
Flexural strength (MPa)	EN ISO 178	948.2

Viscosity



All values are nominal.

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

Find out what PRF can do for your business

Make an enquiry today at:

t: +44 (0) 1202 680022

e: enquiries@prfcomposites.com

www.prfcomposites.com

PRF Composite Materials

3 Upton Road

Poole

Dorset BH17 7AA

Important Notice

All statements, technical information and recommendations offered are only for consideration and evaluation. Whilst they are believed to be accurate they are not guaranteed and are provided without warranty of any kind. No undertaking is given that the goods/products supplied are fit for its particular purpose. The buyer/user shall assume all risks and liabilities in connection therewith.

RP570 ed. 3.0 Jun 2016



Prepreg



Reinforcements



Resin



Aerospace
Adhesives



Shears



Tooling Block



Mould Release



Consumables