

Medium Temperature Cure Resin System

# RP5365

### Provisional data

130°C Cure

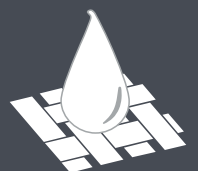
#### Applications

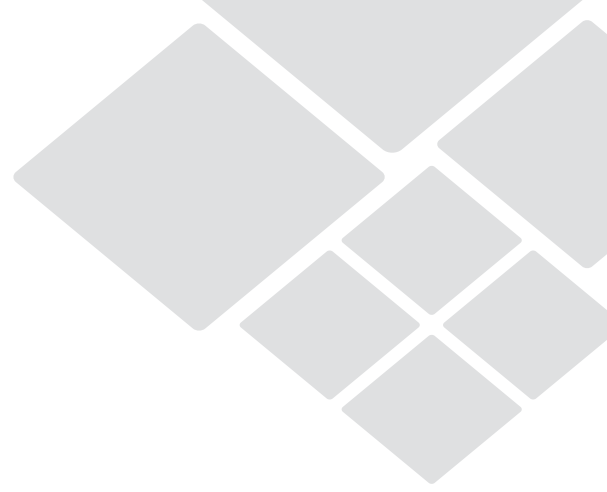
- Aerospace
- Automotive
- Motorsport
- Marine
- Defence

#### Processing Methods

- Autoclave
- Press moulding

TDS090





## Description

RP5365 is a structural component epoxy prepreg, formulated to achieve an extended ambient outlife time of 1 year, reducing or eliminating the necessity of freezing or refrigerated long-term storage and transportation.

The excellent surface level tack of this system is provided throughout its lifespan making it ideal for both large structural components as well as complex geometries.

## Main features

- Long Ambient Outlife - 365 days at 20°C
- Controlled flow at High Temperature
- Excellent surface finish
- Standard Cure: 2 hours at 130°C
- Tg (DSC) Onset: 146.1°C, Mid: 148.6°C, End: 151.0°C
- Available on most of PRF's reinforcement fabrics

## Storage

### Shelf life

20°C	365 days
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**Health and Safety** - Refer to the full Material Safety Datasheet before use.



## Cure Cycle

Autoclave:

- Full Vacuum (>0.9 Bar)
- Dwell Time: 2 hours
- Dwell Temperature: 130°C
- Temperature Ramp: 1-2°C/min
- Pressure Dwell: 6 Bar
- Pressure Ramp: 1 Bar/min

## Mechanical Properties

**RP5365 C0462 245g/m<sup>2</sup> Twill 2/2 TR30S**

Cure cycle 2 hours 130°C

Tg (DSC) (°C)	
Onset:	146.1
Mid:	148.6
End:	151.0
Tensile Strength (MPa)	656
Tensile Modulus (GPa)	58
Compressive Strength (MPa)	550
Flexural Strength (MPa)	851
Flexural Modulus (GPa)	46
ILSS (MPa)	63



# Find out what PRF can do for your business

Make an enquiry today at:

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## PRF Composite Materials

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### 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.

RP5365 ed. 1.0 Nov 2025 TDS090

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