

Evopreg EPC

Epoxy prepregs for
component applications

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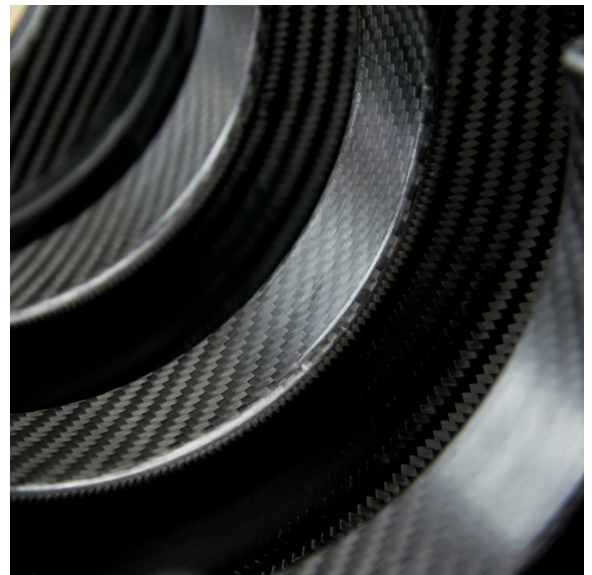
Evopreg EPC component prepregs are a range of composite materials based on in-house formulated epoxy resin systems.

They are designed for a range of cure temperatures with high performance, ease of lay-up and excellent surface finish.

The prepregs can be supplied with a range of reinforcement fibres and fabric constructions. They can be consolidated by vacuum bagging, autoclave or press moulding and are designed for a range of applications including automotive, sporting goods, motorsport, renewable energy and general industrial.

Evopreg EPC prepregs are available with a wide range of reinforcements including woven, non-woven, non-crimp stitched and unidirectional fabrics in the following fibres:

- Carbon
- Glass
- Flax
- Aramid
- Hybrids
- others on request



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Example Prepreg Specifications - EPC300 Medium Temperature Cure

Reinforcement	Carbon 205 g/m ² 2x2 Twill 3K
Resin Content (by weight)	42%
Tack Level	Medium
Width	1270 mm
Ply Thickness (cured)	0.22 mm
Density (cured)	1.50 g/cm ³
Service Temperature (cured at 120°C for 1 hour)	Up to 130°C

Processing

Evopreg EPC prepregs can be processed using standard techniques including vacuum bagging, autoclave and press moulding. Typical curing cycle 120°C for 1 hour, but can be cured at 80°C to 120°C. More details available on request.

Example Mechanical Properties

Tensile Modulus	64.1 GPa	ISO 527-4
Tensile Strength	669 MPa	ISO 527-4
Flexural Modulus	51.6 GPa	ISO 14125
Flexural Strength	885 MPa	ISO 14125
In-Plane Shear Strength	109 MPa	ISO 14129

Typical mechanical properties for laminates made from EPC300-C205T-HS-3K-42, press moulded, 6 bar, 120°C for 1 hour, and tested at ambient. Data normalised to 50% Vf.

Storage

Storage life at -18°C: 12 months
Outlife at 20°C: 30 days

Safety

Typical precautions should be taken when handling the material including using appropriate PPE and adequate ventilation. Please refer to safety data sheet.

The information provided here is believed to be accurate but should be considered indicative only. It is the responsibility of the customer to ensure suitability for their application prior to use.