Composites Evolution

Evopreg EPC

Epoxy prepregs for component applications

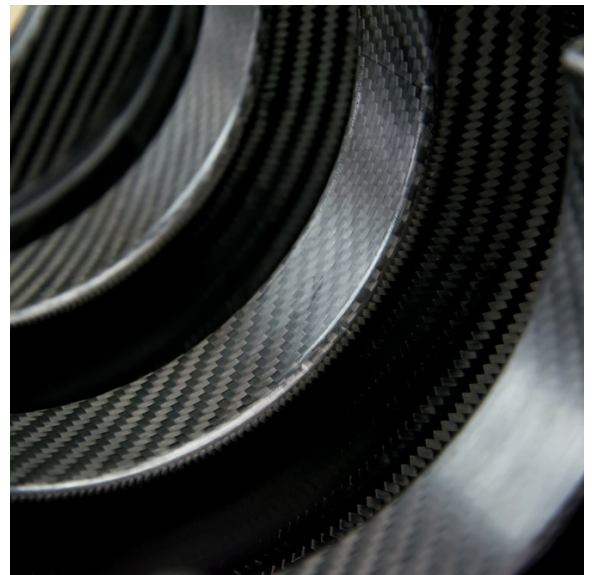## Evopreg EPC

Evopreg EPC

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

They are designed for medium temperature cure 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.

Available Products:

- Evopreg EPC Carbon
- Evopreg EPC Flax
- Evopreg EPC Glass
- Evopreg EPC Aramid

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YOUR PARTNER FOR PREPREGS

ISO 9001 REGISTERED FIRM
UKAS MANAGEMENT SYSTEMS 054
european certification group
Certificate Number 442031

Evopreg EPC

Example Prepreg Specifications

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	64.5 GPa	ISO 527-4
Tensile Strength	705 MPa	ISO 527-4
Flexural Modulus	54.5 GPa	ISO 14125
Flexural Strength	855 MPa	ISO 14125
In-Plane Shear Strength	115 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.

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