



KORDCARBON -CPREG-EP4

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Product type:
Tg 125 °C System with
carbon fabric

Typical field of applications:

- Industry applications
- Ballistic & Defense
- Rail & Transport
- Structural parts
- Impact strength applications
- Application with fatigue resistance

Storage life:
20 °C: 1 month
-18 °C: 2 months

PRODUCT DESCRIPTION

Kordcarbon-Cpreg-EP4 is a carbon fabric, impregnated with solvent free Epoxy based resin for manufacturing as prepreg. Superior thermal and mechanical properties allows applications for structural parts with improved fatigue resistance. The modified system with high toughness enables higher impact strength applications. It has outstanding peel and interlaminar shear strength even under thermal and moist stress. The prepreg grant good drape ability by controlled tack and flow properties. It has an improved shelf life at room temperature of 1 month at least.

Generally speaking, the resin can be filled with a variety of additives to enhance certain features like flame resistance, toughness, UV resistance or colour.

Properties:

- Solvent free
- Curing at 100 - 130 °C
- Good drape ability
- Excellent impact resistance
- Excellent fatigue resistance
- Good flow properties
- Good process ability with medium Tack

Resin:

Density: 1,23 g/cm³
Tg: 125 °C

**Fabrics:**

| Fibers | Area weight [g/m ²] | Weave | Yarn [K] | Resin content [%] |
|-------------------------|---------------------------------|----------------|----------|----------------------------|
| Carbon | 60 - 120 | Plain | 1 | can be set from 30 – 50 |
| Carbon | 160 - 600 | Plain or Twill | 3 - 12 | |
| Carbon | 150 - 600 | UD | 6 - 50 | |
| Hybrid Carbon/Aramid | 164 - 190 | Plain or Twill | 3 | |

These technical information result from accurately testing and investigations. Regarding to various specific processes, they must be seen as nonbinding values for orientation. Therefore, a claim for warranty can not be derived from this information.