

Unidirectional Carbon Fiber Fabric



Fiber Properties

- Tensile strength 3800MPa
- Tensile modulus 230GPa
- Elongation 2.1%

- Product Code: MAX-C40T
- Fabric Weight: 400gsm
- Fabric Weave: Unidirectional
- Fabric Width: Flexible
- Roll Length: Flexible
- Appearance: Black color&Glossy

Laminate Properties

Tensile strength	1009MPa	ASTM D-3039
Tensile modulus	68.0GPa	ASTM D-3039
Tensile strain	1.4%	ASTM D-3039

*Results based on tests of 2plies of fabric

Application details

Consumption

Dry application

- Impregnating of the first layer including primer $\sim 1.0\text{-}1.5\text{kg/m}^2$
- Impregnating of the following layers $\sim 0.8\text{kg/m}^2$

Substrate quality

specific requirements

Minimal substrate tensile strength is 1.0N/m^2

Application Instructions

Application Method

The fabric can be cut with special scissors or razor knife. Never fold the fabric!

Notes On Application

This product may only be used by experienced professionals.

Minimum radius required for application around corners is $> 20\text{mm}$. Grinding edges may be necessary.

In fiber direction, overlapping of the fabric must be at least 100mm.

For side-by-side application, no overlapping length in the weft direction is required. Overlaps of additional layers must be distributed over the column circumference.

The strengthening application is inherently structural and great care must be taken when choosing suitably experienced contractors.

Health and Safety

Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet(available upon request) containing physical, ecological, toxicological and other safety-related data.