

300 GSM – Uni-directional Woven Carbon

For Strengthening and Retrofitting Applications:

- Increase in flexural load carrying capacity.
- Increase in shear load carrying capacity.
- Increase in strength of column by way of confinement
- Increase in ductility of column and beam column joints.
- Improving service life and durability.
- Structural upgrades to comply with standards



| Characteristic | Specification | Tolerance | Test Method |
|----------------------------------|---------------|-----------|-----------------------------------|
| Areal Weight (g/m ²) | 300 | -0% / +5% | ASTM D3776 |
| Standard Width (mm) | 300 | ± 10 mm | ASTM D3774 |
| Fabric Design Thickness (mm) | 0.167 | - | Calculated based on fiber content |

FIBER PROPERTIES

| Characteristic | Fiber | Orientation | % Weight |
|----------------|-------------------|-------------|----------|
| Warp | High Strength 12K | 0° | 98 |
| Weft | Fusible Glass | 90° | 2 |

FIBER PROPERTIES

| Characteristic | Unit | Value |
|-------------------|-------------------|------------------|
| Density | g/cm ³ | 1.8 |
| Filament Diameter | µm | 7 nominal |
| Tensile Strength | MPa | 4900 min. |
| Tensile Modulus | GPa | 240 min. |
| Elongation | % | 2.2 max |
| Sizing | - | Epoxy Compatible |

Disclaimer. The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual size conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and all risks and liability in connection therewith. The information contained in the brochure may change at any time without notice.



LAMINATE PROPERTIES

| Characteristic | Specification | Tolerance | Test Method |
|----------------------|---------------|----------------|-------------|
| Type of Resin system | - | Epoxy Saturant | - |
| Tensile Strength | MPa | 1000 min. | ASTM D3039 |
| Tensile Modulus | GPa | 95 min. | ASTM D3039 |
| Elongation | % | 1.5 max. | ASTM D3039 |

PACKAGING

Wound on a cardboard core, covered with brown craft paper and placed in a cardboard box. Rolls stacked horizontally on pallets when shipping.

ROLL LENGTH

VX Carbon Master 300 are typically available in the form of rolls with roll width 500 mm and 1000 mm roll length of 50m & 100 m. Custom widths and length can be produced on request against MOQ's.

STORAGE

It should be stored in its undamaged original packaging in a dry and cool place.

Boxes must be stacked flat and not on ends.

Best conditions are at temperature from 10 to 35°C and humidity between 35 and 85%.

SHELF LIFE

36 months from date of production when stored in proper storage conditions

INSTALLATION

VX Carbon Master 300 must be applied by trained and certified applicators in accordance with the quality control manuals, project specifications, and design requirements. Specialist structural engineers must be consulted for any structural strengthening design calculations.

HANDLING

Use hand gloves, masks and protective glasses.

Please refer to our Material Safety Data Sheets before use for complete details.

Carbon fibers are electrically conductive.

DISPOSAL

Dispose by incineration or as per local regulations.