

Technical Datasheet – Carbon Woven Reinforcement Fabric

HinFab™ HCAP180

180 GSM – Plain Woven Hybrid Fabric



| Characteristic | Specification | Tolerance | Test Method |
|----------------------------------|---------------|-----------|-------------|
| Areal Weight (g/m ²) | 180 | ± 3% | |
| Width* (mm) | 1000 | -0/+10mm | |
| Dry Fabric Thickness(mm) | 0.22 | ± 0.03mm | |

*Custom Width available.

| | | | |
|-------------|---------------------|---------------------|--|
| WARP | Carbon Fiber | 50% by weight | |
| | Standard Modulus 3K | | |
| | 12.70 ends/inch | | |
| WEFT | Carbon Fiber | 50% by weight | |
| | Standard Modulus 3K | | |
| | 12.70 picks/inch | | |

| Fiber Properties | |
|------------------------------|-------------------------|
| Density (g/cm ³) | 1.80 |
| Filament Diameter (µm) | 7 |
| Tensile Strength (MPa) | 3450 |
| Tensile Modulus (GPa) | 230 |
| Elongation (%) | 1.5 |
| Sizing | Epoxy Compatible |

| Typical Packaging |
|---|
| Wound on a cardboard tube, sealed in a polyethylene bag, firmly secured and placed in a cardboard box |

| Disclaimer |
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| HinFab™ fabrics are manufactured in accordance with Hindoostan Composite Solutions written and published data. A Certificate of Conformance is provided with each shipment. |

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