

# T1100S

## INTERMEDIATE MODULUS CARBON FIBER

Next-generation intermediate modulus fiber with excellent processability in traditional manufacturing methods (filament winding). Manufactured in the U.S.

### PRODUCT DESIGNATION

| T1100S     | C      | 12,000         | 7           | 1                 | E             |
|------------|--------|----------------|-------------|-------------------|---------------|
| Fiber Type | Twist* | Filament Count | Sizing Type | Surface Treatment | Sizing Amount |

\*C: Never Twisted

### RESIN SYSTEM COMPATIBILITY

| SIZING TYPE & AMOUNT | RESIN SYSTEM COMPATIBILITY              | METHOD     |
|----------------------|---|------------|
| 50C (1.0%)           | Epoxy, phenolic, polyester, vinyl ester | TY-030B-05 |

### FIBER PROPERTIES

| PROPERTY          | ENGLISH   | METRIC                 | METHOD     |
|-------------------|-----------|------------------------|------------|
| Tensile Strength  | 1,017 ksi | 7,000 MPa              | TY-030B-01 |
| Tensile Modulus   | 47.0 Msi  | 324 GPa                | TY-030B-01 |
| Strain at Failure |           | 2.0%                   | TY-030B-01 |
| Density           |           | 1.79 g/cm <sup>3</sup> | TY-030B-02 |
| Filament Diameter |           | 5 μm                   |            |
| Yield             | 12K       | 505 g/1000m            | TY-030B-03 |
|                   | 24K       | 1,010 g/1000m          | TY-030B-03 |

### PACKAGING

The table below summarizes the tow sizes, twists, sizing types, and packaging available for standard material. Other bobbin sizes may be available on a limited basis.

| TOW SIZES | BOBBIN NET WEIGHT (kg) | BOBBIN TYPE | BOBBIN SIZE (mm) |      |     |     |     | SPOOL PER CASE | CASE NET WEIGHT (kg) |
|-----------|------------------------|-------------|------------------|------|-----|-----|-----|----------------|----------------------|
|           |                        |             | a                | b    | c   | d   | e   |                |                      |
| 12K       | 2.0                    | III         | 76.5             | 82.5 | 280 | 125 | 252 | 12             | 24                   |
| 24K       | 4.0                    | III         | 76.5             | 82.5 | 280 | 160 | 252 | 6              | 24                   |

### Bobbin Type:

