

## Hexcel® HexPly® F155 Epoxy Resin, T2C145 Carbon Tape

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite , Epoxy , Epoxy/Carbon Fiber Composite

### Material Notes:

Hexcel designation: TXX145-12"-F155; Various fibers  
Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-F155-Epoxy-Resin-T2C145-Carbon-Tape.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-F155-Epoxy-Resin-T2C145-Carbon-Tape.php)

| Mechanical Properties      | Metric               | English              | Comments                     |
|----------------------------|----------------------|----------------------|------------------------------|
| Tensile Strength, Yield    | 4.62 MPa             | 670 psi              | Flatwise TS                  |
|                            | @Temperature 24.0 °C | @Temperature 75.2 °F |                              |
|                            | 1710 MPa             | 248000 psi           |                              |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                              |
|                            | 1834 MPa             | 266000 psi           |                              |
|                            | @Temperature 24.0 °C | @Temperature 75.2 °F |                              |
| Tensile Modulus            | 119 GPa              | 17300 ksi            |                              |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                              |
|                            | 126.2 GPa            | 18300 ksi            |                              |
|                            | @Temperature 24.0 °C | @Temperature 75.2 °F |                              |
| Compressive Yield Strength | 1172 MPa             | 170000 psi           |                              |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                              |
|                            | 1331 MPa             | 193000 psi           |                              |
|                            | @Temperature 24.0 °C | @Temperature 75.2 °F |                              |
| Compressive Modulus        | 117 GPa              | 17000 ksi            |                              |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                              |
| Shear Strength             | 89.6 MPa             | 13000 psi            | Compression interlaminar; RT |
|                            | 71.7 MPa             | 10400 psi            | Compression interlaminar     |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                              |

| Descriptive Properties       | Value | Comments |
|------------------------------|-------|----------|
| Cured Thickness per Ply (cm) | 0.014 | Laminate |
| Dry Resin Content (%)        | 38-40 | Prepreg  |
| Fiber Volume (%)             | 57    | Laminate |

| Flow (%)<br>Descriptive Properties | 4-16<br>Value | Comments |
|------------------------------------|---------------|----------|
|------------------------------------|---------------|----------|

## Contact Songhan Plastic Technology Co.,Ltd.

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