

## Hexcel® HexPly® F515 Epoxy Resin, T5A120 Carbon Tape

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

### Material Notes:

Hexcel designation: TXX120-12"-F515; Fiber: IM6 Information provided by HexCel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexPly-F515-Epoxy-Resin-T5A120-Carbon-Tape.php](http://www.lookpolymers.com/polymer_Hexcel-HexPly-F515-Epoxy-Resin-T5A120-Carbon-Tape.php)

| Mechanical Properties      | Metric               | English              | Comments           |
|----------------------------|----------------------|----------------------|--------------------|
| Tensile Strength, Yield    | 2137 MPa             | 309900 psi           | 1/2 hr             |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                    |
|                            | 2648 MPa             | 384100 psi           |                    |
|                            | @Temperature 23.0 °C | @Temperature 73.4 °F |                    |
| Tensile Modulus            | 137.9 GPa            | 20000 ksi            | 1/2 hr             |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                    |
|                            | 155.1 GPa            | 22500 ksi            |                    |
|                            | @Temperature 23.0 °C | @Temperature 73.4 °F |                    |
| Flexural Yield Strength    | 1448 MPa             | 210000 psi           | 1/2 hr             |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                    |
|                            | 1675 MPa             | 242900 psi           |                    |
|                            | @Temperature 23.0 °C | @Temperature 73.4 °F |                    |
| Flexural Modulus           | 149.6 GPa            | 21700 ksi            | 1/2 hr             |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                    |
|                            | 149.6 GPa            | 21700 ksi            |                    |
|                            | @Temperature 23.0 °C | @Temperature 73.4 °F |                    |
| Compressive Yield Strength | 1413 MPa             | 204900 psi           | 1/2 hr             |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                    |
|                            | 1634 MPa             | 237000 psi           |                    |
|                            | @Temperature 23.0 °C | @Temperature 73.4 °F |                    |
| Compressive Modulus        | 137.9 GPa            | 20000 ksi            |                    |
|                            | @Temperature 23.0 °C | @Temperature 73.4 °F |                    |
| Shear Strength             | 71.7 MPa             | 10400 psi            | Short Beam, 1/2 hr |
|                            | @Temperature 71.0 °C | @Temperature 160 °F  |                    |

| Mechanical Properties | 82.0 MPa<br>Metric   | 11900 psi<br>English | Comments |
|-----------------------|----------------------|----------------------|----------|
|                       | @Temperature 23.0 °C | @Temperature 73.4 °F |          |

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