HexTow® 85 carbon fiber is a continuous, PAN based fiber available in 24,000 (24K) filament count tows. This fiber was developed specifically as a cost-effective replacement of rayon-based carbon fiber for ablative applications.

The method in which it is processed results in a PAN-based carbon fiber that delivers equivalent strength and ablative performance to traditional rayon-based carbon fiber in carbon-carbon composite structures. Composite and carbon-carbon ablative data are currently being generated to compare HexTow® 85 performance to historical rayon databases.

HexTow® 85 is manufactured in the United States from U.S.-produced PAN precursor, ensuring a reliable supply chain for ablative materials used on US military applications.

### Typical Fiber Properties

<table>
<thead>
<tr>
<th></th>
<th>U.S. Units</th>
<th>SI Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Density</strong></td>
<td>0.0647 lb/in³</td>
<td>1.79 g/cm³</td>
</tr>
<tr>
<td><strong>Weight/Length (24K)</strong></td>
<td>98 x 10⁻⁶ lb/in</td>
<td>1.75 g/m</td>
</tr>
<tr>
<td><strong>Approximate Yield (24K)</strong></td>
<td>851 ft/lb</td>
<td>0.57 m/g</td>
</tr>
<tr>
<td><strong>Tow Cross-Sectional Area (24K)</strong></td>
<td>15.15 x 10⁻⁴ in²</td>
<td>0.98 mm²</td>
</tr>
<tr>
<td><strong>Carbon Content</strong></td>
<td>85%</td>
<td>85%</td>
</tr>
</tbody>
</table>

### Packaging

Standard packaging of HexTow® 85 is as follows:

<table>
<thead>
<tr>
<th>Filament Count</th>
<th>Nominal Weight</th>
<th>Nominal Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(lb)</td>
<td>(kg)</td>
</tr>
<tr>
<td>24K</td>
<td>8.0</td>
<td>3.6</td>
</tr>
</tbody>
</table>

Other package sizes may be available on request.
The fiber is wound on a 3-inch ID by 11-inch long cardboard tube and overwrapped with plastic film.

### Safety Information

Obtain, read, and understand the Safety Data Sheet (SDS) before use of this product.
HexTow® 85
Carbon Fiber

For more information
Hexcel is a leading worldwide supplier of composite materials to aerospace and industrial markets. Our comprehensive range includes:

- HexTow® carbon fibers
- HexForce® reinforcements
- HiMax™ multiaxial reinforcements
- HexPly® prepregs
- HexMC®-i molding compounds
- HexFlow® RTM resins
- Redux® & HexBond™ adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products
- Polyspeed® laminates & pultruded profiles
- HexAM™ additive manufacturing

For US quotes, orders and product information call toll-free 1-800-688-7734. For other worldwide sales office telephone numbers and a full address list, please go to:

http://www.hexcel.com/contact

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