Process - Good spreadability without fuzzy
Customization - Cooperation and innovation
Competitive - Production with stable quality and supplies
Integration - From crude oil to carbon fiber

Certification
ISO 9001, AS9100C, ISO 14001, OHSAS18001
Property Carbon fiber is a high temperature resistant fiber with high strength and modulus. It is a fibrous material composed of carbon atoms and has a diameter of only about one tenth of the diameter of the hair (about 5-10 μm). It is a high performance material for a diverse range of properties.

A. Stronger than steel, lighter than aluminum
B. Corrosion and rust resistant
C. Dimensional stability, low thermal expansion and good heat resistance
D. Excellent vibration attenuation
E. High X-ray penetration, good electrical and heat conductivity
F. Low friction coefficient and excellent wear resistance
G. Excellent fatigue and creep resistance

Application Wind Energy, Automotive, Cable Core, Pressure Vessel, Sport, Construction, Pumping Pipe, C-C Composite, Aerospace

Process SMC, LFT, Prepreg, Weaving, Injection, Compounding, Winding, Pultrusion, RTM

Advantage

Higher Tensile Modulus than competitor’s product within same grade.

<table>
<thead>
<tr>
<th>Tensile Strength (Ksi)</th>
<th>710 FPC</th>
<th>711 Competitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Modulus (Msi)</td>
<td>36.0 FPC</td>
<td>33.4 Competitor</td>
</tr>
<tr>
<td>Elongation (%)</td>
<td>2.0 FPC</td>
<td>2.1 Competitor</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
<td>1.8 FPC</td>
<td>1.8 Competitor</td>
</tr>
</tbody>
</table>

Take TC36P-12K as an example

Formosa Plastics Corporation is the only company which enable to produce carbon fiber from refinery to carbonization in the world.

With this unique integrated advantage, we are the best stable and excellent source for your need in carbon fiber.

Specification

Available in various grades for different applications including high strength, standard to high modulus (33 Msi - 55 Msi) and small to large tow (1.5K - 48K).

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Yield Tex (g/1000m)</th>
<th>Tensile Strength</th>
<th>Tensile Modulus</th>
<th>Elongation (%)</th>
<th>Density (g/cm³)</th>
<th>Filament Diameter (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC33</td>
<td>1.5K 2K 3K 6K</td>
<td>100</td>
<td>500</td>
<td>33 230</td>
<td>1.5</td>
<td>1.8</td>
</tr>
<tr>
<td>TC35R</td>
<td>12K 24K 48K</td>
<td>800</td>
<td>580</td>
<td>35 240</td>
<td>1.7</td>
<td>1.8</td>
</tr>
<tr>
<td>TC36</td>
<td>3K 6K 8K 12K 24K 48K</td>
<td>200</td>
<td>680</td>
<td>35 240</td>
<td>1.7</td>
<td>1.8</td>
</tr>
<tr>
<td>TC36P</td>
<td>12K 24K</td>
<td>800</td>
<td>620</td>
<td>36 250</td>
<td>2.0</td>
<td>1.8</td>
</tr>
<tr>
<td>TC42S</td>
<td>12K 24K</td>
<td>440</td>
<td>825</td>
<td>42 290</td>
<td>2.0</td>
<td>1.8</td>
</tr>
<tr>
<td>TC55</td>
<td>12K 24K</td>
<td>420</td>
<td>640</td>
<td>55 380</td>
<td>1.2</td>
<td>1.79</td>
</tr>
</tbody>
</table>

Contact

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