Description
HexPly® M10E is an epoxy resin system preimpregnated into aramid, glass or graphite multiaxial fabrics and unidirectional fibers. HexPly® M10E prepregs are recommended for the production of low cost, large thick-sectioned industrial structures.

Features
- Flexible Cure Cycle (185° F to 300° F)
- Vacuum Bag or Autoclave Cure
- High Flow, Low Viscosity System
- Medium to High Tack
- Can be Stored at Room Temperature for 60 Days
- Optically Clear Resin

Properties
- Glass transition temperature: Dry, 241° F, Wet, 194° F
- Resin density 1.19
- Barcol Hardness 33

Availability

<table>
<thead>
<tr>
<th>Form</th>
<th>Hexcel Designation</th>
<th>Fiber</th>
<th>Fiber Areal Wt. G/m²</th>
<th>Weave</th>
<th>Count Warp x Fill</th>
<th>Available Widths in (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabric PW</td>
<td>282</td>
<td>3K</td>
<td>197</td>
<td>Plain weave</td>
<td>12 by 12</td>
<td>50&quot;</td>
</tr>
<tr>
<td>Graphite UD</td>
<td>AS3C-S 150-300 GSM</td>
<td>AS3C-S 12K</td>
<td>150-300</td>
<td></td>
<td>12&quot;, 24&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Carbon Tapes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile and compressive</td>
<td>M10E 37% AS3C-S, 300 GSM</td>
</tr>
</tbody>
</table>
Mechanical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Temperature</th>
<th>Condition</th>
<th>Carbon Tapes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>Room Temp.</td>
<td>Dry</td>
<td>293 ksi</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>Room Temp.</td>
<td>Dry</td>
<td>17.6 Msi</td>
</tr>
<tr>
<td>Tensile Strain</td>
<td>Room Temp.</td>
<td>Dry</td>
<td>1.54%</td>
</tr>
<tr>
<td>Compression Strength</td>
<td>Room Temp.</td>
<td>Dry</td>
<td>154 ksi</td>
</tr>
<tr>
<td>Compression Modulus</td>
<td>Room Temp.</td>
<td>Dry</td>
<td>17.0 Msi</td>
</tr>
<tr>
<td>Compression Strain (calculated)</td>
<td>Room Temp.</td>
<td>Dry</td>
<td>0.91%</td>
</tr>
</tbody>
</table>

Cure Cycle
- 185° F, 14 hours
- 200° F, 120 minutes
- 250° F, 30 minutes
- 300° F, 8 minutes

Cure Procedure
Vacuum bag or autoclave cure using ramp rate of 2-5° F per minute. Recommend hold at 250° F for 30 minutes.

Storage  (maximum, from date of manufacture)
- At 0° F, 18 months
- At 41° F, 6 months
- At 72° F, 2 months

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
- HexBond™ adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products
- Polyspeed® laminates & pultruded profiles
- HexAM® additive manufacturing

For U.S. 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:

https://www.hexcel.com/contact

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