Description
HexPly® 108 is a high temperature resistant epoxy resin system developed for the fabrication of primary aircraft and space structures. 108 has excellent hot wet properties and exhibits low viscosity.

Benefits and Features
- High temperature performance
- High flow matrix
- Low tack
- Good hot wet properties up to 145°C

Resin Matrix Properties

Cured Matrix Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>59 MPa</td>
<td>ISO R527</td>
</tr>
<tr>
<td>Tensile modulus</td>
<td>3.54 GPa</td>
<td>ISO R527</td>
</tr>
<tr>
<td>Strain</td>
<td>1.7%</td>
<td>ISO R527</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>94 MPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Flexural modulus</td>
<td>2.48 GPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Glass transition temperature (T_g)</td>
<td>190 - 210°C</td>
<td>DMA</td>
</tr>
<tr>
<td>Cured resin density</td>
<td>1.26 g/cm³</td>
<td></td>
</tr>
</tbody>
</table>
Prepreg Curing Conditions

The recommended cycle is:
1. Apply a 0.8 bar vacuum to component
2. Heat up to 120°C at 2°C/min
3. Apply a 3 bar pressure and vent vacuum when pressure reaches 1.5 bar
4. Dwell at 120°C for 20 min
5. Apply 7 bar pressure after dwell
6. Heat up to 180°C at 2°C/min
7. Cure at 180°C for 3 hours
8. Cool to 60°C before releasing pressure and removing component

Prepreg Storage Life

- Tack life @ 23°C 10 days
- Guaranteed shelf life @ -18°C 12 months

Precautions for Use

The usual precautions when handling uncured synthetic resins and fine fibrous materials should be observed, and a Safety Data Sheet is available for this product. The use of clean disposable inert gloves provides protection for the operator and avoids contamination of material and components.

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
- HexPly® prepregs
- HexMC® molding compounds
- HexFlow® RTM resins
- Redux® adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products

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/salesoffice

©2016 Hexcel Corporation – All rights reserved. Hexcel Corporation and its subsidiaries (“Hexcel”) believe that the technical data and other information provided herein was materially accurate as of the date this document was issued. Hexcel reserves the right to update, revise or modify such technical data and information at any time. Any performance values provided are considered representative but do not and should not constitute a substitute for your own testing of the suitability of our products for your particular purpose. Hexcel makes no warranty or representation, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, and disclaims any liability arising out of or related to, the use of or reliance upon any of the technical data or information contained in this document.