Description
HexPly HT93 is a phenolic resin developed to meet such FST (Fire, Smoke, Toxicity) regulations for aircraft interior panels such as: side wall panels, floor panels, galleys, ceiling panels and toilets. HexPly HT93 has very good drape and tack properties.

HexPly HT93 prepreg is available in various fabric reinforcements.

Benefits and Features
- Controlled flow matrix
- Excellent tack life
- Excellent drape properties
- Self extinguishing FAR 25.853
- FAR 25.853 Amendment 66 and OSU 65/65
- Good peel properties
- Versatile cure cycle 125 - 150°C
- Suitable for vacuum bag, press and autoclave

Resin Matrix Properties

Rheology

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Time (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>2 hours</td>
</tr>
<tr>
<td>135</td>
<td>1 hour 30 mins</td>
</tr>
<tr>
<td>150</td>
<td>1 hour</td>
</tr>
</tbody>
</table>

Heat up rate 0.5 - 10°C/min

Gel Time
Cured Matrix Properties

*Smoke* and Toxicity**

Monolithic 6 plies - 1.9 ± 0.1mm - 40% Resin in weight

<table>
<thead>
<tr>
<th>Density</th>
<th>Toxicity (concentration in ppm at 4 minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAA requirements</td>
<td>&lt;200</td>
</tr>
<tr>
<td>With Flame (3 specimens)</td>
<td>55</td>
</tr>
<tr>
<td>102</td>
<td>4.49</td>
</tr>
<tr>
<td>46</td>
<td>1.81</td>
</tr>
<tr>
<td>Average</td>
<td>67</td>
</tr>
<tr>
<td>Without Flame (3 specimens)</td>
<td>42</td>
</tr>
<tr>
<td>29</td>
<td>5.31</td>
</tr>
<tr>
<td>69</td>
<td>2.39</td>
</tr>
<tr>
<td>Average</td>
<td>47</td>
</tr>
<tr>
<td>Comment Pass</td>
<td>Pass Pass Pass Pass Pass Pass Pass -</td>
</tr>
</tbody>
</table>

Test Methods: *FAR/JA2 25.853 - Appendix F - Part V**

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Prepreg Storage Life

- Tack Life @ 23°C 30 days
- Guaranteed Shelf Life @ -18°C 14 months (maximum, from date of manufacture)

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
- 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
- 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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