HexPly® M78
Prepregs

Fast cure, long storage stability and excellent adhesion. HexPly® M78 is designed for more flexibility in the manufacture of skis to enhance both process and quality.
HexPly® M78 Prepregs

- Fast cure: 7 minutes at 120° C
- Long storage stability: Minimum 2 weeks at 23° C
- Clean & safe low tack prepreg, fully REACH compliant
- Excellent adhesion to auxiliary and core materials

HexPly® M78.1 is a formulated, hot melt epoxy resin matrix, especially designed for prepreg applications where short cure cycles using temperatures from 110° up to 160° C are required. Due to its high reactivity, M78.1 can be used for economic, environmentally friendly and fast manufacture of industrial composites and is applicable for pre-impregnation into carbon, glass or aramide fibers.

**Makes your process more flexible**
Tailored to the ski manufacturing process HexPly® M78.1 is a quality enhancing alternative with comparable costs like in-house prepreg.
- Facilitated handling and moulding thanks to low tack for handling advantages
- Versatile, short cure cycles:110 – 160°C,18.5 min. respectively
- Fast cure: Modified, toughened epoxy resin and a highly reactive curative package
- Excellent adhesion to auxiliary and core materials like aluminium, wood, thermoplastics and elastomers.

**Short cycle times – long storage stability**
Long storage stability at room temperature: storage +23° C min. 2 weeks - In 7 minutes cured at 120° C
- Saves energy and time
- Saves energy costs - no freezing needed: storable at ambient conditions
- Workable immediately: no time for conditioning needed after storing
- Prepreg rolls easier storable than sheets

**Enhanced quality & flexibility**
- Reproducible quality
- No quality fluctuations due to manual preparation
- Quality tracking possible

**Time & size flexibility**
- More flexible production process thanks to material on stock
- Not fixed to one size: Prepreg on rolls can be cut to any dimension needed

**Reduced resin flow** during moulding (than in-house prepregs) due to elevated minimum viscosity

**Environmental, Health and Safety Management**
- Solvent-free, non-aggressive
- No adhesive handling needed
- REACH compliant

**Fast manufacture of industrial composites**
- Low tack for convenient manual handling
- Well adapted to pressure moulding processes,suitable for a range of pressures (1 to 10 bar)
# Mechanical Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Reinforcement</th>
<th>Physical Properties</th>
<th>Mechanical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fiber</td>
<td>Fabric</td>
<td>Fiber Weight [g/m²]</td>
</tr>
<tr>
<td>M78.1/42%/LBB450/C</td>
<td>Carbon</td>
<td>non-woven</td>
<td>450</td>
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<tr>
<td>M78.1/34%/LT570/G+F</td>
<td>Glass</td>
<td>non-woven + fleece</td>
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<td>non-woven + fleece</td>
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<tr>
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<td>non-woven + fleece</td>
<td>845</td>
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<tr>
<td>M78.1/39%/UD120/CHS</td>
<td>Carbon</td>
<td>UD</td>
<td>120</td>
</tr>
</tbody>
</table>

Mechanical data are based on a cure cycle of 130°C, 15 min, 5 bar.
Hexcel Product Family

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 quotes, orders and product information call our sales office in Austria +43 7229 772-0. For other worldwide sales office telephone numbers and a full address list, please go to:

http://www.hexcel.com/contact/salesoffice