P9HT HIGH PERFORMANCE R-GLASS
MULTI-END ROVING FOR AERONAUTIC APPLICATIONS

DESCRIPTION

- **P9HT** Rovings are intended for production of composites structures requiring excellent mechanical performance in static and in fatigue.
- **P9HT** multi-end rovings are made from R-Glass, manufactured from a collection of continuous glass fibers which are gathered without intentional twist into a single roving.
- P9HT Rovings are coated with a silane type based sizing, and are specially designed for epoxy matrix composites.

BENEFITS

- Boron and fluorine free glass
- High modulus
- High fatigue resistance
- Excellent mechanical and thermal properties
- Easy unwinding
- Very good wet-out and impregnation
- Low catenary
- Low fuzz

APPLICATIONS

P9HT Rovings can be used in a large variety of textile processes:

- Unidirectional pre-pregging (dry and wet process)
- Filament winding (dry and wet process)
- Pultrusion
- Weaving (woven or knitted fabrics)
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TECHNICAL CHARACTERISTICS (NOMINAL VALUES)

<table>
<thead>
<tr>
<th>Product</th>
<th>Filament Ø (µm)</th>
<th>Linear weight of roving (Tex) ISO 1889</th>
<th>Loss on Ignition (%) ISO 1887</th>
<th>Moisture content (%) ISO 3344</th>
</tr>
</thead>
<tbody>
<tr>
<td>P9HT 10R 800</td>
<td>10</td>
<td>800</td>
<td>1.20</td>
<td>&lt; 0.10</td>
</tr>
<tr>
<td>P9HT 10R 1600</td>
<td>10</td>
<td>1600</td>
<td>1.20</td>
<td>&lt; 0.10</td>
</tr>
</tbody>
</table>

PACKAGING
Roving are supplied on cardboard tubes for external unwinding. Each bobbin is protected by a polyethylene bag and placed with a centring device in a cardboard box (220 × 220 × 278 mm). Between each layer is placed a cardboard plate for protection and stabilisation. The boxes are palletised and wrapped with a stretched film. Packaging system is not designed for stacking.

<table>
<thead>
<tr>
<th>Product</th>
<th>Roving Ø (mm)</th>
<th>Height (mm)</th>
<th>Net weight (kg)</th>
<th>Layers per pallet</th>
<th>Bobbins per layer</th>
<th>Bobbins per pallet</th>
<th>Pallet dimensions L × W × H (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internal</td>
<td>External</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P9HT 10R 800</td>
<td>76</td>
<td>195</td>
<td>270</td>
<td>10</td>
<td>4</td>
<td>20</td>
<td>80</td>
</tr>
<tr>
<td>P9HT 10R 800</td>
<td>76</td>
<td>230</td>
<td>270</td>
<td>14</td>
<td>4</td>
<td>20</td>
<td>80</td>
</tr>
<tr>
<td>P9HT 10R 1600</td>
<td>76</td>
<td>170</td>
<td>270</td>
<td>7.5</td>
<td>4</td>
<td>20</td>
<td>80</td>
</tr>
</tbody>
</table>

LABELING
Each bobbin has a self-adhesive identification label, showing the product reference and the production date.

STORAGE
The P9HT Rovings must be stored in their original packaging at temperatures between 0°C and +4°C, and be used within nine months from the manufacture date mentioned on its packaging.

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