M103
Chopped Strand Mat

**PRODUCT DESCRIPTION** This product is produced using Advantex® glass fiber. Advantex® glass fiber combines the electrical and mechanical properties of traditional E-glass with the acid corrosion resistance of E-CR glass.

The M103 chopped strand mat is made with very low size strands of Advantex® Glass Roving, held together by a powder binder which is extremely soluble in styrene.

The basic strand has a sizing system containing a silane coupling agent. This multi-purpose mat is used in numerous applications; M103 chopped strand mat is used in the reinforcement of polyester, vinyl ester and epoxy resins by contact moulding and continuous machine lamination.

Its very low strand tex enables higher resin pick up and as a result it is particularly appreciated in manufacture of high quality flat panels where a very good aspect is required, as a surfacing mat and in mould making.

Advantex® glass is a patented glass formulation meeting ASTM D578 as a boron-free corrosion resistant E-CR glass fiber and ISO 2078 recommendation for use in acid environments.

**PRODUCT APPLICATIONS**
- Very good surface appearance
- Continuous laminating (translucent panels, exterior panels for truck trailers, sandwich panels, etc.)
- Anti-corrosion applications.

**FEATURES AND PRODUCT BENEFITS**
- Excellent compatibility with polyester resins, producing laminates with very high clarity (without any appearance of the strand pattern)
- Best smoothness of the laminate surface with no visible strands
- Excellent compatibility with vinylester and epoxy resins.

**TECHNICAL CHARACTERISTICS** *(nominal values)*

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>225 ± 16%</td>
<td>10.5 ± 40%</td>
<td></td>
</tr>
<tr>
<td>300 ± 16%</td>
<td>4.5 ± 40%</td>
<td></td>
</tr>
<tr>
<td>375 ± 16%</td>
<td>3.8 ± 40%</td>
<td></td>
</tr>
<tr>
<td>450 ± 16%</td>
<td>3.5 ± 40%</td>
<td></td>
</tr>
<tr>
<td>600 ± 16%</td>
<td>3.2 ± 40%</td>
<td>0.2</td>
</tr>
</tbody>
</table>
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VISUAL CHARACTERISTICS

- Unbound edges
- Holes (> 40mm) or tears
- Dirt spots (greater than 5 mm)
- Unopened strands
- Accumulation of fibers (>40mm)
- Each 100 m² roll of chopped strand mat section may contain at most 6 of the defects listed above.

PRODUCT AVAILABILITY (standard ref.)

All range of widths (between 10 and 320 cm) and weights are available. Most combinations of weights and widths can be supplied (may be subject to minimum order quantities, extended lead times and complementary widths).

<table>
<thead>
<tr>
<th>Standard Weight (g/m²)</th>
<th>Standard Width (cm)</th>
<th>Diameter (cm)</th>
<th>Length</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>125/130</td>
<td>39</td>
<td>220</td>
<td>86</td>
</tr>
<tr>
<td>450</td>
<td>125</td>
<td>39</td>
<td>150</td>
<td>88</td>
</tr>
</tbody>
</table>

A roll is considered to be complete if it measures more than 70% of the nominal length.

PACKAGING

- Each roll is wound up on a cardboard tube (internal diameter 101 mm) and wrapped up individually; the height is equal to the width of the mat.
- The pallet is wrapped with polyamidestraps.
- Number of rolls per pallet = 9 vertical.

<table>
<thead>
<tr>
<th>Product</th>
<th>Mat Width (cm)</th>
<th>Pallet Dimensions LxWxH (cm)</th>
<th>Net Pallet Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 g/m²</td>
<td>125</td>
<td>120x120x147</td>
<td>700</td>
</tr>
<tr>
<td>450 g/m²</td>
<td>125</td>
<td>120x120x147</td>
<td>730</td>
</tr>
</tbody>
</table>

- Special packaging: - strips are packed in cardboard boxes of palletized according to the quantity.
  - Rolls higher than 2 m are placed in a wooden cage

LABELLING

Each pallet has two identification labels detailing the product reference, the net and gross weights in Kg, packaging and product code, identification code of the palletized unit, production date.

STORAGE

The M103 mat should be stored in its original packaging in a dry and cool place. Best conditions are at temperature from 10 to 35°C and humidity between 35 and 85%. If you store the product at lower temperatures, please move the soon to be processed pallets to the production area 24 hours ahead of time; remove part of the protective cover of each roll to prevent condensation. You can stock pallets one on one with a plywood plank in between the two.

Contact:
ChoppedStrandMats@owenscorning.com

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This information and data contained herein is offered solely as a guide in the selection of a reinforcement. The information contained in this publication is based on actual laboratory data and field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user’s process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law safety code or insurance regulation.