E-CSM
Light Weight Chopped Strand Mat for Hand-Lay Up

PRODUCT DESCRIPTION
E-CSM is made from E-glass low size chopped strands held together by an emulsion binder which makes it perfectly suitable for use with polyester resins. The basic strand has a sizing system containing a silane coupling agent.

PRODUCT REFERENCE
Example : E-CSM 100-130 1ST
E-CSM : OCV Reinforcements™ code for this chopped strand mat
100 : roll weight (g/m²)
130 : roll width (cm)
1ST : number of trimmed edges (zero, one or two)

FEATURES AND PRODUCT BENEFITS
- Very high smoothness of the laminate surface
- High drapability
- Good compatibility with vinylester and epoxy resins.

TECHNICAL CHARACTERISTICS (nominal values)

<table>
<thead>
<tr>
<th>WEIGHT (G/M²)</th>
<th>LOSS ON IGNITION (%)</th>
<th>MOISTURE (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 1889</td>
<td>ISO 1887</td>
<td>ISO 3344</td>
</tr>
<tr>
<td>100 ± 10%</td>
<td>5.4 ± 25%</td>
<td>0.3</td>
</tr>
<tr>
<td>150 ± 10%</td>
<td>4.8 ± 25%</td>
<td></td>
</tr>
<tr>
<td>200 ± 10%</td>
<td>4.5 ± 25%</td>
<td></td>
</tr>
</tbody>
</table>

Specifications on average values.

VISUAL CHARACTERISTICS or POSSIBLE DEFECTS
All the visible defects of the chopped strand mat are classified as visual defects. The maximum number of visual defects allowed for a 100m² roll is 10. Possible defects are:
- Unbound edges
- Holes (> 40mm) or tears
- Dirt spots (greater than 5mm)
- Unopened strands
- Accumulation of fibers (>40mm) or binder (>20mm)
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PRODUCT AVAILABILITY

<table>
<thead>
<tr>
<th>STANDARD WEIGHT (G/M²)</th>
<th>STANDARD WIDTH (CM)</th>
<th>DIAMETER (CM)</th>
<th>ROLL WEIGHT (KG)</th>
<th>PALLET WEIGHT (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>130</td>
<td>28</td>
<td>26</td>
<td>416</td>
</tr>
<tr>
<td>150</td>
<td>130</td>
<td>28</td>
<td>29</td>
<td>468</td>
</tr>
<tr>
<td>200</td>
<td>130</td>
<td>28</td>
<td>41</td>
<td>655</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 packaged in an individual cardboard box. Box length is approximately equal to the width of the mat.
- Standard palletisation versions
  - Sixteen vertical rolls per 114 x 114cm pallet and
  - Twelve horizontal rolls per 114 x 135cm pallet
- In each case the boxes are protected by shrinkwrap polythene and secured using polyamide straps
- In order to maintain appropriate inventory control we are obliged to supply these palletisation versions in approximately 1 : 1 ratio.

LABELING

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 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.

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