Fiber1 ECM2 is the trade mark of the chopped strand mat which is manufactured by Glass Fiber Technology Co. Ltd. Made from E-Glass chopped strands bonded with Powder binder designed for use in orthophthalic and isophthalic polyester, vinylester, and epoxy resin systems.

Chopped strand mat is primarily use for Hand Lay-Up (HLU) process, Filament Winding (FW) process and Press Molding of FRP products that includes Water Tanks, Boats, Bathroom Accessories, Pipes, Shelter, Building Materials, Automobiles, Furnitures, Agro Equipments and other FRP products.

NAMING:

Example: Fiber1 ECM2 – 450P/127
Fiber1 : Trademark of Glass Fiber Technology Co. Ltd (GFT).
ECM2 : GFT Code
450 : Density (g/m²)
P : Powder Bonded
127 : Mat Width in cm.

KEY FEATURES

- Fast & Easy Impregnation.
- Fast-Wet-Through and de-airing.
- Excellent Conformability.
- Good Mechanical Properties.
- Low Resin Consumption.
- Silane Based Sizing on Strands.

PRODUCTS AVAILABLE

The main advantage of Fiber1 ECM2 chopped strand mat is the availability of an extensive range of widths and weights (widths from 25 to 260 cm, nominal weights from 150 to 900 g/m²). Most combinations of weights and widths can be supplied. Subject in some cases to minimum order quantities, extended lead times and complementary widths.
PRODUCT PROPERTIES (Standard)

<table>
<thead>
<tr>
<th>Weight (Density)</th>
<th>Tensile Strength (MPa)</th>
<th>Loss On Ignition (%)</th>
<th>Residual Moisture</th>
<th>Width (Standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>225 g/m²</td>
<td>120 MPa</td>
<td>4% mass</td>
<td>0.02% mass</td>
<td>127 cm</td>
</tr>
<tr>
<td>300 g/m²</td>
<td>196 MPa</td>
<td>4.5% mass</td>
<td>0.02% mass</td>
<td>127 cm</td>
</tr>
<tr>
<td>450 g/m²</td>
<td>245 MPa</td>
<td>4.5% mass</td>
<td>0.02% mass</td>
<td>127 cm</td>
</tr>
<tr>
<td>600 g/m²</td>
<td>294 MPa</td>
<td>4.5% mass</td>
<td>0.02% mass</td>
<td>127 cm</td>
</tr>
</tbody>
</table>

Tolerance ± 8%

PACKING
Each roll is put into individual carton then palletized. For bulk packing for each pallet we put 16 rolls.

STORAGE
It is recommended that fiberglass is store vertically in a cool and dry environment, with recommended storage temperatures ranging between 10 ~ 30 °C and its relative humidity between 50 ~ 75%, to avoid problems with humidity or static electricity, the glass product should be conditioned in the working area prior to use. This fiberglass should remain in the packaging prior to its use.

Glass Fiber Technology Co. Ltd. Main Office:
Gwaiza - P.O. Box 110290 Jeddah 21361 Kingdom of Saudi Arabia
Tel ☎ +966-2-6217251/2804767/2804784/2804775  Fax: +966-2-6217257
Website: www.frptechnology.com  E-Mail: info@frptechnology.com

This information is offered solely as a guide in the selection of reinforcement. The information contained in this publication is based on 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, by accepting the products described herein, 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 data sheet shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation. This specification may be subject to change and a check should be made to ensure that the information is still current and GFT reserves the right to change the information given herein without prior notice.

Ver.1.4, Last Review January 2008 Copyright © 2008 Glass Fiber Technology.