**BMCarbon® 70 CF45- 6 mm**

**Generic Information**

Bulk moulding compound based on Epoxy resin and reinforced with carbon fibres designed for compression moulding technology. These materials with a potential weight reduced and a freedom high design enter different areas for structural application where high mechanical properties are requested.

**Code Description**

- **Carbon Fibre Length**
- **Carbon Fibre Content**
- **Carbon Fibre Reinforcement**
- **Resin Code**

Packaging: bag in cardboard box  
Fibre length: 6 mm  
Nominal fibre Content: 45 %

Shelf life at -18°C: 2 months  
Typical Cure temperature: 145 ± 10 °C  
Typical moulding pressure: 30-90 bar  
Typical Cure time: 140 sec/mm

**Storage and Handling**

Store the product in its original sealed packaging at -18°C. Leave product to reach room temperature before use, to prevent condensation. The usual precautions when handling uncured synthetic resins and fine fibrous materials should be observed, and a Safety Data Sheet is available for this product. The use of clean disposable inert gloves provides protection for the operator and avoids contamination of material and components.
Mechanical Properties on cured material

Properties were determined on compression-moulded specimens according UNIPLAST rules project 412 and 413.

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>Unit</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>ISO 1183 A</td>
<td>g/cm³</td>
<td>1.50</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>ISO 2577</td>
<td>%</td>
<td>0.00</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ISO 14125</td>
<td>N/mm²</td>
<td>170</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>ISO 14125</td>
<td>N/mm²</td>
<td>15000</td>
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<tr>
<td>Tensile Strength</td>
<td>ISO 527-4</td>
<td>N/mm²</td>
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<tr>
<td>Tensile Modulus</td>
<td>ISO 527-4</td>
<td>N/mm²</td>
<td>21000</td>
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<tr>
<td>Impact Strength</td>
<td>ISO 179</td>
<td>KJ/m²</td>
<td>25</td>
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<tr>
<td>Heat Distortion Temp.</td>
<td>ISO 75-2</td>
<td>°C</td>
<td>&gt; 200</td>
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<tr>
<td>Glass Transition Temp.1</td>
<td>ISO 11357-2</td>
<td>°C</td>
<td>145</td>
</tr>
<tr>
<td>Glass Transition Temp.2</td>
<td>ISO 11357-2</td>
<td>°C</td>
<td>165</td>
</tr>
</tbody>
</table>

(Post cured 4h at 200°C)

Additional Info

Disclaimer: The information on this product data sheet is based on our most up-to-date knowledge. However, it is the user’s responsibility to determine the suitability of a product for their application. Information and recommendations contained in this document are given in good faith without warranty or guarantee, and it is the user that is responsible for the compliance with all legal requirements. The user is urged to carry out tests for themselves to determine the suitability of any product for their proposed applications. All the trademarks, trade names, logos and other indications of origin mentioned on the product data sheet are property rights of Polynt S.p.A.

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