Generic Information

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

Code Description

- **Fleece surface weight**
- **Carbon Fibre Content**
- **Carbon Fleece**
- **Resin Code**

Packaging: roll  
Material width: 500 mm  
Shelf life at -18°C: 6 months  
Shelf life at RT 23°C: 8 weeks

- Fibre: carbon fleece  
- Nominal fibre content $w/w$: 40%  
- Areal weight: 1000 g/m²  
- Typical cure temperature: 125-140 °C  
- Typical moulding pressure: 80-120 bar  
- Typical cure time: 35 sec/mm

Storage and Handling

Store the product in its original sealed packaging at 23°C. Leave product to reach room temperature before unrolling, 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 DIN EN 14598

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>ISO 1183 A</td>
<td>g/cm³</td>
<td>1.35</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>ISO 2577</td>
<td>%</td>
<td>-0.06</td>
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<tr>
<td>Tensile Modulus</td>
<td>ISO 527-4</td>
<td>N/mm²</td>
<td>20000</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>Flexural Modulus</td>
<td>ISO 14125</td>
<td>N/mm²</td>
<td>19800</td>
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<tr>
<td>Flexural Strength</td>
<td>ISO 14125</td>
<td>N/mm²</td>
<td>340</td>
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<tr>
<td>Impact Strength</td>
<td>ISO 179</td>
<td>KJ/m²</td>
<td>35</td>
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<tr>
<td>Heat Distortion Temperature</td>
<td>ISO 75-2°</td>
<td>°C</td>
<td>&gt;200</td>
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<td>Glass Transition Temperature</td>
<td>ISO 11357-2</td>
<td>°C</td>
<td>170</td>
</tr>
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</table>

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 Composites Germany GmbH.

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