DISTITRON® VE 100 H

Product type
Bisphenol-A Epoxy Resin based vinyl ester in styrene

Appearance
Yellow - Transparent

Main resin characteristics
Clear, unaccelerated, High stability

Main applications
Pipes and tanks, Production of Gelcoat, Profiles, Putties

Moulding informations
Filament winding, Mix with fillers and/or additives, Pultrusion

FEATURES OF THE LIQUID RESIN

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Method</th>
<th>Unit</th>
<th>Typical values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific weight at 20°C</td>
<td>MT-CU025V</td>
<td>g/cm³</td>
<td>1.06</td>
</tr>
<tr>
<td>Brookfield viscosity at 25°C, sp 2 rpm 20</td>
<td>MT-CU001C</td>
<td>mPa.s</td>
<td>380 - 480</td>
</tr>
<tr>
<td>Solid content</td>
<td></td>
<td>%</td>
<td>54 - 58</td>
</tr>
<tr>
<td>Reactivity at 25°C + 0,5% Co 6% + 1,5% CuHP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gel time</td>
<td>RS.08.G</td>
<td>minutes</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Delta</td>
<td>RS.08.G</td>
<td>minutes</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Exothermic peak</td>
<td>RS.08.G</td>
<td>°C</td>
<td>155 - 185</td>
</tr>
<tr>
<td>Acidity</td>
<td>MT-CU001I</td>
<td>mgKOH/g</td>
<td>8 max</td>
</tr>
<tr>
<td>Shelf life at 23°C in the dark</td>
<td>MT-CU002S</td>
<td>months</td>
<td>6</td>
</tr>
</tbody>
</table>

PROPERTIES OF THE CURED UNREINFORCED RESIN

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Method</th>
<th>Unit</th>
<th>Typical values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curing cycle</td>
<td></td>
<td></td>
<td>24h at 23°C + 2h at 100°C + 1h at 100°C</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>ISO 527 (2012)</td>
<td>MPa</td>
<td>85</td>
</tr>
<tr>
<td>Tensile modulus</td>
<td>ISO 527 (2012)</td>
<td>MPa</td>
<td>3400</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>ISO 527 (2012)</td>
<td>%</td>
<td>6.6</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>ISO 178/B (2010)</td>
<td>MPa</td>
<td>145</td>
</tr>
<tr>
<td>Flexural modulus</td>
<td>ISO 178/B (2010)</td>
<td>MPa</td>
<td>3300</td>
</tr>
<tr>
<td>HDT</td>
<td>ISO 75 -2A (2013)</td>
<td>°C</td>
<td>104</td>
</tr>
<tr>
<td>Barcol hardness at 25°C</td>
<td>ASTM D 2583 (2007)</td>
<td>units</td>
<td>36</td>
</tr>
</tbody>
</table>

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