Cable Compounds

CHAR-FORMING SHEATHING COMPOUNDS FOR IMPROVED BURNING PROPERTIES

HIGHLIGHTS

Remarkable improved fire behavior due to char-forming

Mecoline S TP 1006 F CHAR
Mecoline S TP 1021 F CHAR

reduced heat release
more stable char/ash

Tp thermoplastic char-forming
### Cable Compound Highlights

**TP**

Char-forming, thermoplastic sheathing compounds for improved burning properties

<table>
<thead>
<tr>
<th></th>
<th>Time to ignition [s]</th>
<th>Total heat release [MJ/m²]</th>
<th>Operating temperature [°C]</th>
<th>Density [g/cm³]</th>
<th>Shore hardness</th>
<th>Tensile strength [N/mm²]</th>
<th>Elongation at break [%]</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mecoline S TP 1006 F</td>
<td>149</td>
<td>50,6</td>
<td>-25 to 90</td>
<td>1.56</td>
<td>50 D</td>
<td>10,3</td>
<td>179</td>
<td>HM2, HM4, HM5, TM7, BS 6724, BS 7655 LTS2, SHF1, CEI 20-11 M1, NF C 32-323</td>
</tr>
<tr>
<td>Mecoline S TP 1006 F CHAR</td>
<td>171</td>
<td>40,5</td>
<td>-30 to 80</td>
<td>1.55</td>
<td>47 D</td>
<td>9,2</td>
<td>195</td>
<td>HM2, HM5, SHF1</td>
</tr>
<tr>
<td>Mecoline S TP 1021 F</td>
<td>162</td>
<td>56,3</td>
<td>-30 to 80</td>
<td>1.48</td>
<td>48 D</td>
<td>10,8</td>
<td>226</td>
<td>HM2, HM5, TM7, BS 7655 LTS1 / LTS3, SHF1</td>
</tr>
<tr>
<td>Mecoline S TP 1021 F CHAR</td>
<td>156</td>
<td>43,7</td>
<td>-30 to 80</td>
<td>1.48</td>
<td>49 D</td>
<td>9,6</td>
<td>212</td>
<td>HM2, HM5, TM7, SHF1</td>
</tr>
</tbody>
</table>

**Features**

- Flame retardant
- Halogen-free
- Low-smoke

**Char-forming**

**Applications**

- Installation
- Shipboard

Remarkable improved fire behavior due to char-forming, proven by Cone Calorimeter tests

**CPR according to DIN EN 50399**

<table>
<thead>
<tr>
<th></th>
<th>THR &amp; PHR</th>
<th>FIGRA:</th>
<th>Flame spread</th>
<th>Fire spread:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>reduced Total Heat Release and Peak Heat Release</td>
<td>reduced Fire Index Growth Rate</td>
<td>significant reduction</td>
<td>no burning droplets within 20 minutes</td>
</tr>
</tbody>
</table>

Use our app to find the right compound: [www.cablecompoundfinder.com](http://www.cablecompoundfinder.com)

Contact: cable@melos-gmbh.com