Product Description

Aquathene CM04483 is a catalyst masterbatch selected by customers for fast curing moisture cure applications. In addition to catalyst, CM04483 also contains antioxidants and metal deactivator. When melt blended at 5 wt% to Aquathene AQ120000, the resulting material is capable of crosslinking when exposed to moisture.

Regulatory Status

For regulatory compliance information, see Aquathene CM04483 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status

Commercial: Active

Availability

North America

Application

Wire & Cable

Market

Wire & Cable

Processing Method

Wire & Cable

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Flow Rate, (190 °C/2.16 kg)</td>
<td>13.5</td>
<td>g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>0.932</td>
<td>g/cm³</td>
<td>ASTM D1505</td>
</tr>
</tbody>
</table>
Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

The combination of 95 wt% AQ120000 and 5 wt% CM04483 can be extruded onto wire using conventional extrusion equipment.

The total system crosslinks after the materials are mixed during extrusion and subsequently exposed to moisture. Crosslinking can be achieved by exposure to steam, immersion in water or storage at ambient conditions. Since cure time varies considerably with environmental conditions and cable constructions, contact your LyondellBasell sales or technical service representative for detailed cure conditions.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

General Extrusion Conditions

A suggested temperature profile for use with a 2.5", 24:1 extruder equipped with a Maddock mixing screw follows:

<table>
<thead>
<tr>
<th>Extruder Zone</th>
<th>Temperature Range</th>
<th>Extruder Zone</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed</td>
<td>130 - 140 °C (266 - 284 °F)</td>
<td>Zone 5</td>
<td>165 - 170 °C (329 - 338 °F)</td>
</tr>
<tr>
<td>Zone 2</td>
<td>140 - 150 °C (284 - 302 °F)</td>
<td>Adapter</td>
<td>165 - 170 °C (329 - 338 °F)</td>
</tr>
<tr>
<td>Zone 3</td>
<td>150 - 160 °C (302 - 320 °F)</td>
<td>Die / Head</td>
<td>165 - 170 °C (329 - 338 °F)</td>
</tr>
<tr>
<td>Zone 4</td>
<td>155 - 165 °C (311 - 329 °F)</td>
<td>Melt</td>
<td>175 - 185 °C (347 - 365 °F)</td>
</tr>
</tbody>
</table>

Company Information

For further information regarding the LyondellBasell company, please visit [http://www.lyb.com/](http://www.lyb.com/).

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