**Aquathene PM92949C**

W&C Polyolefin Compound

**Product Description**

*Aquathene* PM92949C is a black masterbatch selected by customers for moisture cure applications. PM92949C contains a 40% loading of a fine particle size carbon black for UV weather resistance, a processing aid and an antioxidant to ensure long-term stability and enhance performance. When PM92949C is melt blended with *Aquathene* AQ120000 and *Aquathene* CM04482 or *Aquathene* CM04483 in the correct ratio this formulation is typically used for USE and USE-2 cable applications.

**Regulatory Status**

For regulatory compliance information, see *Aquathene* PM92949C 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

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Nominal Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density, (23 °C)</td>
<td>1.14</td>
<td>g/cm³</td>
<td>ASTM D1505</td>
</tr>
<tr>
<td>Additive</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Black Content</td>
<td>40</td>
<td>%</td>
<td>ASTM D1603</td>
</tr>
</tbody>
</table>

LyondellBasell
Technical Data Sheet
Date: 3/27/2020
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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 88.7 wt% AQ120000, 6.3 wt% PM92949C and 5 wt% CM04482 or 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 considerable 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>

Material Handling
Aquathene PM92949C black masterbatch should be stored separately from AQ120000 resin until extrusion. Aquathene PM92949C contains carbon black, which can increase moisture absorption. Because of this factor, this product is packaged in boxes with foil liners to prevent exposure to moisture during shipping and handling. If the product is exposed to moisture, it should be dried for approximately 8-16 hours at 140°F (60°C) before use.

Company Information
For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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