Technical Data Sheet

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (23 °C)	1.14	g/cm³	ASTM D1505
Additive			
Carbon Black Content	40	%	ASTM D1603

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:

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

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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Users should review the applicable Safety Data Sheet before handling the product.

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(i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
(ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
(iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
(iv) tobacco related products and applications, electronic cigarettes and similar devices.
(v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:
(i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
(ii) applications involving permanent implantation into the body;
(iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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