

LyondellBasell Aquathene® CM92949B Black Masterbatch

Category : Polymer , Thermoplastic

Material Notes:

ApplicationsAQUATHENE CM 92949 is a black masterbatch designed for use with AQUATHENE AQ 120-00 ethylene vinylsilane copolymer for producing low voltage, power insulation. When CM 92949 is added at 9 wt% to AQ 120-000 and the appropriate catalyst masterbatch such as CM 04482, the resulting material is suitable for use in applications such as USE and USE-2 cable. The compound is crosslinked by exposure to moisture.

Processing TechniquesThe combination of 86 percent AQ 120-000, nine percent CM 92954 and five percent CM 04482 can be extruded onto wire using conventional extrusion equipment. A suggested temperature profile for use with a 2.5", 20:1 extruded equipped with a Maddock mixing screw is recommended. Regulatory StatusThe total system, AQ 120-000, CM92949 and CM 04482, crosslinks after the materials are mixed during extrusion and subsequently exposed to moisture. Cross-linking can be achieved by exposure to steam, immersion in water or storage at ambient conditions. Since cure times varies considerable with environmental conditions and cable constructions, contact your Equistar sales representative for detailed cure conditions. CM 92949 black masterbatch should be stored separately from AQ 120-000 resin until extrusion. CM 92949 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 approximately 8-16 hours at 140°F(60°C) before use.

Physical PropertiesThe values listed for physical electrical properties are nominal values only and are subject to normal variations consistent with the test methods and/or variations found acceptable to the industry. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Aquathene-CM92949B-Black-Masterbatch.php

| Physical Properties | Metric | English | Comments |
|----------------------|-----------|---------------------------|------------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | ASTM D1505 |
| Carbon Black Loading | 27.8 % | 27.8 % | ASTM D1603 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Feed Temperature | 141 °C | 285 °F | |
| Zone 2 | 149 °C | 300 °F | |
| Zone 3 | 157 °C | 315 °F | |
| Zone 4-x | 163 °C | 325 °F | |
| Adapter Temperature | 177 °C | 350 °F | |
| Die Temperature | 177 °C | 350 °F | |

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