



Aquathene™

# CM04483

Catalyst Masterbatch

Wire and Cable Grade

Melt Index 16.9 Density 0.90

## Applications

AQUATHENE CM04483 is a catalyst masterbatch designed for faster curing with [AQUATHENE AQ120000](#) ethylene vinylsilane copolymer. When CM04483 is added at 5 wt % to AQ120000, the resulting material is capable of crosslinking when exposed to moisture.

## Processing Techniques

The combination of 5 percent CM04483 and 95% AQ120000 can be extruded onto wire using conventional extrusion equipment. A suggested temperature profile for use with a 2.5", 20:1 extruder equipped with a Maddock mixing screw follows:

Extruder Zone	Temperature
Feed	135°C / 275°F
Zone 2	145°C / 293°F
Zone 3	155°C / 311°F
Zone 4-X	160°C / 320°F
Adapter	165°C / 329°F
Die	170°C / 338°F

The two-part system consisting of AQ120000 and CM04483 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 Equistar sales representative for detailed cure conditions.

CM04483 catalyst masterbatch should be stored separately from AQ120000 resin until extrusion. If the product is exposed to moisture, it should be dried for approximately 8-16 hours at 140°F (60°C) before use. Otherwise drying is not necessary.

## Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	16.0	g/10 min	D 1238
Density	0.90	g/cc	D 1505

The 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.

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