LyondellBasell AquatheneÂ® AQ120000 Ethylene Vinylsilane Copolymer

Category : Polymer , Thermoplastic

Material Notes:

ApplicationsAQUATHENE AQ 120-000 is an ethylene vinylsilane copolymer designed for use in low voltage, power cable applications. This natural resin can be crosslinked, by exposure to moisture after extrusion with an appropriate catalyst.Processing TechniquesAQ 120-000 can be extruded using conventional extrusion equipment. For example, AQ 120-000 has been extruded successfully using a 2.5", 20:1 extruder equipped with a Maddock mixing screw under suggested temperature conditions. Regulatory StatusCrosslinking of the total system, AQ 120-000 and an appropriate crosslinking catalyst such as AQUATHENE CM 04482, occurs after the materials are mixed during extrusion and exposed to moisture. Crosslinking can be achieved by exposure to steam, immersion in hot water or storage at ambient conditions. The time required to achieve crosslinking depends on the catalyst masterbatch and temperature of the moisture. Because conditions can vary considerably, contact your Equistar sales representative for detailed recommendations. AQ 120-000 should be stored separately from the crosslinking catalyst masterbatch unitl extrusion. This resin can be stored in bulk for several months without special packaging and should not require drying prior to extrusion.Physical PropertiesAll properties determined from compression molded plaques. The values listed for physical electrical properties are nominal 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-AQ120000-Ethylene-Vinylsilane-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/inÂ³	ASTM D1505
Melt Flow	1.5 g/10 min	1.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.2 MPa	1920 psi	ASTM D638
Elongation at Break	720 %	720 %	ASTM D638

Processing Properties	Metric	English	Comments
Feed Temperature	154 Â°C	310 Â°F	
Zone 2	163 Â°C	325 Â°F	
Zone 3	168 Â°C	335 Â°F	
Zone 4-x	177 Â°C	350 Â°F	
Adapter Temperature	177 Â°C	350 Â°F	
Die Temperature	177 Â°C	350 Â°F	

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