

Borealis Visico™ LE4481/LE4437 Moisture-Crosslinking Polyethylene Compound for Flexible Low Voltage Insulation

Category : Polymer , Thermoplastic , Ethylene Butyl Acrylate , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Wire/Cable Grade

Material Notes:

Visico LE4481/LE4437 is a natural, low-density ethylene vinyl silane/ ethylene butyl acrylate terpolymer that is designed for flexible low voltage wire insulation and jacketing. The combination of a Visico base material, LE4481, and a fine catalyst masterbatch, LE4437, provides a patented scorch retardant additive (SRA) that increases the processing window for a moisture crosslinking compound and minimizes the tendency for premature crosslinking in the extruder, head or die. LE4437 should be added to LE4481 directly in the extruder hopper by dry blending at a ratio of 5 parts LE4437 to 95 parts LE4481. LE4437 also provides, in addition to catalyst, a stabilization package containing suitable antioxidant, a metal passivator and a metal deactivator. Properly mixed, during the extrusion process, LE4481/LE4437 exhibits excellent thermal stability to oxidation. LE4481/LE4437 is recommended for use as insulation for low voltage control cables and power cables up to 6 kV in rating that require excellent ambient and low temperature flexibility. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Visico-LE4481LE4437-Moisture-Crosslinking-Polyethylene-Compound-for-Flexible-Low-Voltage-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.928 g/cc	0.0335 lb/in ³	LE 4481; ASTM D792
	0.933 g/cc	0.0337 lb/in ³	LE 4437; ASTM D792
Melt Flow	4.5 g/10 min	4.5 g/10 min	LE 4481; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 9.93 MPa	>= 1440 psi	Heat Aging (7 days at 121°C); ASTM D412
	11.0 MPa	1600 psi	ASTM D412
Elongation at Break	<= 50 %	<= 50 %	Hot Creep Test (150°C, .2 MPa); ICEA T-28-562
	225 %	225 %	Heat Aging (7 days at 121°C); ASTM D412
	250 %	250 %	ASTM D412
Tensile Set	<= 5.0 %	<= 5.0 %	Hot Creep Test (150°C, .2 MPa); ICE T-28-562

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	<= 2.7	<= 2.7	ASTM D150

Electrical Properties	@Frequency 60 Hz Metric	@Frequency 60 Hz English	Comments
Dielectric Strength	>= 21.7 kV/mm	>= 550 kV/in	ASTM D149
Dissipation Factor	0.0010 @Frequency 60 Hz	0.0010 @Frequency 60 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	>= 140 °C	>= 284 °F	
Front Barrel Temperature	>= 120 °C	>= 248 °F	
Die Temperature	>= 141 °C	>= 285 °F	
Head Temperature	>= 140 °C	>= 284 °F	

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