

Borealis Visico™ LE4423/LE4460/LE4437 Scorch Retardant, Moisture-Crosslinking Polyethylene Compound for Low Voltage Installation

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

Material Notes:

Visico LE4423/LE4460/LE4437 is a natural, halogen-based, moisture-induced crosslinking polyethylene compound that is designed for use as low voltage wire insulation and jacketing. The combination of the Visico LE4423 base resin, along with the LE4460 brominated flame retardant masterbatch and the LE4437 tin catalyst masterbatch provides a highly scorch retardant compound with excellent thermal stability and good flame properties. LE4423/LE4460/LE4437 contains 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. A finished compound that is composed of 75 parts LE4423 mixed with 20 parts of LE4460 and 5 parts of LE4437 is recognized by Underwriters Laboratories as Visico Horizontal. LE4422/LE4460/LE4437 is recommended for use as insulation for low voltage control cables and power cables up to 6 kV in rating. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Visico-LE4423LE4460LE4437-Scorch-Retardant-Moisture-Crosslinking-Polyethylene-Compound-for-Low-Voltage-Installation.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	LE 4423; ASTM D792
	0.941 g/cc	0.0340 lb/in ³	LE 4437; ASTM D792
	2.00 g/cc	0.0723 lb/in ³	LE 4460; ASTM D792
Melt Flow	0.90 g/10 min	0.90 g/10 min	LE 4423; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 14.58 MPa	>= 2115 psi	Heat Aging (7 days at 121°C); ASTM D412
	16.2 MPa	2350 psi	ASTM D412
	<= 50 %	<= 50 %	Hot Creep Test (150°C, .2 MPa); ICEA T-28-562
Elongation at Break	270 %	270 %	Heat Aging (7 days at 121°C); ASTM D412
	300 %	300 %	ASTM D412
	<= 5.0 %	<= 5.0 %	Hot Creep Test (150°C, .2 MPa); ICE T-28-562
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
	2.3	2.3	

Dielectric Constant Electrical Properties	Metric @Frequency 60 Hz	English @Frequency 60 Hz	ASTM D150 Comments
Dielectric Strength	>= 21.7 kV/mm	>= 550 kV/in	ASTM D149
Dissipation Factor	0.00050 @Frequency 60 Hz	0.00050 @Frequency 60 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	>= 163 °C	>= 325 °F	
Front Barrel Temperature	>= 146 °C	>= 295 °F	
Die Temperature	>= 177 °C	>= 350 °F	
Head Temperature	>= 177 °C	>= 351 °F	

Descriptive Properties	Value	Comments
Horizontal Flame Test	Pass	14AWG-30mil, UL 1581

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