

Borealis Visico™ LE4421/LE4432 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:

LE4421/LE4432 is a black, moisture-induced crosslinking polyethylene compound that is designed for use as low voltage wire insulation and jacketing. The combination of a VISICO™ base material, LE4421, and a tin catalyst masterbatch, LE4432, provides a highly scorch retardant compound with excellent thermal stability. LE4421/LE4432 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. LE4432 should be added to LE4421 directly in the extruder hopper by dry blending at a ratio of 10 parts LE4432 to 90 parts LE4421. LE4421/LE4432 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-LE4421LE4432-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 4421; ASTM D792
	1.05 g/cc	0.0379 lb/in ³	LE 4432; ASTM D792
Melt Flow	0.90 g/10 min	0.90 g/10 min	LE 4421; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 13.28 MPa	>= 1926 psi	Heat Aging (7 days at 121°C); ASTM D412
	14.8 MPa	2140 psi	ASTM D412
Elongation at Break	<= 50 %	<= 50 %	Hot Creep Test (150°C, .2 MPa); ICEA T-28-562
	270 %	270 %	Heat Aging (7 days at 121°C); ASTM D412
	300 %	300 %	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	2.3	2.3	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	>= 21.7 kV/mm	>= 550 kV/in	ASTM D149

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 60 Hz	@Frequency 60 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	>= 171 °C	>= 340 °F	
Front Barrel Temperature	>= 146 °C	>= 295 °F	
Die Temperature	>= 177 °C	>= 350 °F	
Head Temperature	>= 177 °C	>= 351 °F	

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