

## Borealis Visico™ ME4425/LE4437 Scorch Retardant, Moisture-Crosslinking Polyethylene Compound for Low Voltage Insulation

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Extruded

### Material Notes:

Visico ME4425/LE4437 is a natural, moisture-induced crosslinking polyethylene compound that is designed for use as low voltage wire insulation and jacketing. ME4425 is a medium-density ethylene vinylsilane copolymer that offers improved deformation resistance, toughness, and durability over conventional low-density ethylene vinylsilane copolymers. The combination of a Visico base material, ME4425, and a tin catalyst masterbatch, LE4437, provides a highly scorch retardant compound with excellent thermal stability. ME4425/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. LE4437 should be added to ME4425 directly in the extruder hopper by dry blending at a ratio of 5 parts LE4437 to 95 parts ME4425. LE4437 also provides, in addition to catalyst, a stabilization package containing suitable antioxidants, a metal passivator and a metal deactivator. Properly mixed, during the extrusion process, ME4425/LE4437 exhibits excellent thermal stability to oxidation.LE4424/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-ME4425LE4437-Scorch-Retardant-Moisture-Crosslinking-Polyethylene-Compound-for-Low-Voltage-Insulation.php](http://www.lookpolymers.com/polymer_Borealis-Visico-ME4425LE4437-Scorch-Retardant-Moisture-Crosslinking-Polyethylene-Compound-for-Low-Voltage-Insulation.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	ME 4425; ASTM D792
	0.941 g/cc	0.0340 lb/in <sup>3</sup>	LE 4437; ASTM D792
Melt Flow	0.70 g/10 min	0.70 g/10 min	ME 4425; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 18.6 MPa	>= 2700 psi	Heat Aging (7 days at 121°C); ASTM D412
	20.7 MPa	3000 psi	ASTM D412
Elongation at Break	<= 50 %	<= 50 %	Hot Creep Test (150°C, .2 MPa); ICEA T-28-562
	315 %	315 %	Heat Aging (7 days at 121°C); ASTM D412
	350 %	350 %	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

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

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	>= 170 °C	>= 338 °F	
Front Barrel Temperature	>= 170 °C	>= 338 °F	
Die Temperature	>= 185 °C	>= 365 °F	
Head Temperature	>= 185 °C	>= 365 °F	

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