

## Borealis Visico™ ME4425/LE4432 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/LE4432 is a black, 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 convention low-density ethylene vinylsilane copolymers. The combination of a Visico base material, ME4425, and a tin catalyst masterbatch, LE4432, provides a highly scorch retardant compound with excellent thermal stability. ME4425/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. 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-ME4425LE4432-Scorch-Retardant-Moisture-Crosslinking-Polyethylene-Compound-for-Low-Voltage-Insulation.php](http://www.lookpolymers.com/polymer_Borealis-Visico-ME4425LE4432-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
	1.05 g/cc	0.0379 lb/in <sup>3</sup>	LE 4432; 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
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	>= 170 °C	>= 338 °F	
Front Barrel Temperature	>= 170 °C	>= 338 °F	
Die Temperature	>= 185 °C	>= 365 °F	
Head Temperature	>= 185 °C	>= 365 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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