

Borealis Visico™/Ambicat™ ME4425/LE4472 Ambient Curing, Moisture-Crosslinking Polyethylene Compound for Low Voltage Insulation

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

Material Notes:

Visico LE4423 is a natural, ethylene vinyl silane copolymer that, when combined with the catalyst masterbatch Ambicat LE4472, will undergo an accelerated, moisture-induced crosslinking reaction. This polyethylene compound is highly active and crosslinks rapidly under ambient temperature and humidity conditions, as well as, in a sauna or hot water bath. The combinations of the Visico medium-density polyethylene base material, ME4425, and the patented sulphonic acid catalyst masterbatch, LE4472, provides a highly scorch retardant compound with excellent thermal stability. The higher density of ME4425 exhibits greater chemical resistance, toughness and improved heat deformation resistance. ME4425 contains a permanent scorch retardant additive (SRA) that increases the processing window for moisture crosslinking compound, minimizes the tendency for premature crosslinking in the extruder, head or die and allows the use of highly active crosslinking catalyst like LE4472. LE4472 should be added to ME4425 directly in the extruder hopper by dry blending at a ratio of 7 parts LE4472 to 93 parts ME4425. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-VisicoAmbicat-ME4425LE4472-Ambient-Curing-Moisture-Crosslinking-Polyethylene-Compound-for-Low-Voltage-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	Base ME 4425; ASTM D792
	1.38 g/cc	0.0499 lb/in ³	Catalyst LE 4472; ASTM D792
Melt Index of Compound	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	>= 315 %	>= 315 %	Heat Aging (7 Days at 121°C); ASTM D412
	350 %	350 %	ASTM D412
Elongation at Yield	>= 50 %	>= 50 %	Hot Creep Test (150°C, 0.20 Mpa); ICEA T-28-562
Tensile Set	<= 5.0 %	<= 5.0 %	Hot Creep Test (150°C, 0.20 Mpa); ICEA 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

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

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