

Borealis Visico™/Ambicat™ LE4421/LE4476 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 LE4421 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 combination of the Visico base material, LE4421, and the patented sulphonic acid catalyst masterbatch, LE4476, provides a highly scorch retardant additive (SRA) that increases with excellent thermal stability. LE 4421 contains a permanent scorch retardant additive (SRA) that increases the processing window for a moisture crosslinking compound, minimized the tendency for premature crosslinking in the extruder, head or die and allows the use of a highly active crosslinking catalyst like LE4476. LE4476 should be added to LE4421 directly in the extruder hopper by dry blending at a ratio of 5 parts LE4476 to 95 parts LE4471. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-VisicoAmbicat-LE4421LE4476-Ambient-Curing-Moisture-Crosslinking-Polyethylene-Compound-for-Low-Voltage-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	Base LE 4421; ASTM D792
	0.933 g/cc	0.0337 lb/in ³	Catalyst LE 4476; ASTM D792
Melt Index of Compound	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	>= 270 %	>= 270 %	Heat Aging (7 Days at 121°C); ASTM D412
	300 %	300 %	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
	@Frequency 60 Hz	@Frequency 60 Hz	

Electrical Properties	Metric ^{23.7 kV/mm}	English ^{550 W/in}	Comments
Dissipation Factor	0.00050 @Frequency 60 Hz	0.00050 @Frequency 60 Hz	ASTM D150

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