

Borealis Visico™/Ambicat™ LE4421/LE4472 Polyethylene Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Visico™ LE4421 / Ambicat™ LE4472 is a silane crosslinkable black compound designed for covering/insulation of overhead cables. The base material Visico™ LE4421 in combination with the catalyst masterbatch Ambicat™ LE4472 will accelerate the moisture-induced crosslinking reaction. The system is highly active and crosslinks quickly at ambient conditions, in sauna or in hot water. When properly mixed, addition of 7 parts of Ambicat™ LE4472 to 93 parts of Visico™ LE4421, insulation with excellent thermo-oxidative stability, also in contact with copper as well as aluminum, is achieved. The final product will contain nominal 2,5% of fine size carbon black ensuring excellent weatherability. Applications: Covering/insulation of overhead cables. Additives: Visico™ LE4421 / Ambicat™ LE4472 contains antioxidant, metal deactivator and a drying agent. Visico™ LE4421 contains a permanent scorch retardant additive, ensuring safe processing and enabling the use of highly active crosslinking catalyst. Specifications: Visico™ LE4421 / Ambicat™ LE4472 in combination meets the applicable requirements as below when processed using sound extrusion and testing procedure: ANSI/ICEA S-70-547; ASTM D 1248 Type II, Class C, Category 4; HD 603 S1; HD 626 S1 (TIX-2, TIX-4, TIX-6, TIX-9); IEC 60502-1; NEMA WC 70; and NEMA WC 71. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-VisicoAmbicat-LE4421LE4472-Polyethylene-Compound-Crosslinkable.php

Physical Properties	Metric	English	Comments
Density	0.933 g/cc	0.0337 lb/in ³	ISO 1183/ISO 1872-2
Environmental Stress Crack Resistance	>= 96 hour @Temperature 50.0 °C	>= 96 hour @Temperature 122 °F	Igepal 10%, F20; IEC 60811-4-1/B
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	1s; ISO 868
Tensile Strength at Break	<= 11.25 MPa	<= 1632 psi	after aging (240h, 135°C); IEC 60811-1-2
	>= 15.0 MPa	>= 2180 psi	250mm/min; ISO 527
Elongation at Break	>= 300 %	>= 300 %	250mm/min; ISO 527

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+6 ohm-cm	>= 1.00e+6 ohm-cm	IEC 60093
Dielectric Constant	2.5 @Frequency 50000 Hz	2.5 @Frequency 50000 Hz	IEC 60250
Dielectric Strength	>= 20.0 kV/mm	>= 508 kV/in	IEC 60243
Dissipation Factor	0.00060 @Frequency 50000 Hz	0.00060 @Frequency 50000 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Zone 1	150 °C	302 °F	
Zone 2	170 °C	338 °F	
Zone 3	170 °C	338 °F	
Zone 4	170 °C	338 °F	
Die Temperature	170 °C	338 °F	
Shelf Life	15.0 Month	15.0 Month	

Descriptive Properties	Value	Comments
Hot Set Test, %	0	200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation
	60	200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load

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