

Borealis Visico™/Visico™ ME4425/LE4438 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Visico™ ME4425 / Visico™ LE4438 is a silane crosslinkable natural compound designed for low voltage power cables up to 6 kV. Visico™ ME4425 and Visico™ LE4438 is a combination of a Visico™ base material and a catalyst master batch which accelerates the moisture-induced crosslinking reaction. When properly mixed, addition of 5 parts of Visico™ LE4438 to 95 parts of Visico™ ME4425 , insulation with excellent thermo-oxidative stability, also in contact with copper as well as aluminum, is achieved. Applications: Visico™ ME4425 / Visico™ LE4438 is designed for: Insulation of low voltage cables for the range up to 6 kV. Additives: Visico™ ME4425 / Visico™ LE4438 contains antioxidant and metal deactivator. Visico™ ME4425 contains a permanent scorch retardant additive, ensuring safe processing and enabling the use of a highly active crosslinking catalyst. Specifications: Visico™ ME4425 / Visico™ LE4438 in combination meets the applicable requirements as below when processed using sound extrusion and testing procedure: ASTM D 1248 Type I, Class A, Category 4; IEC 60502-1; HD 603 S1; HD 604 S1; 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-VisicoVisico-ME4425LE4438-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	mixture 95:5; 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	55	55	1s; ISO 868
Tensile Strength at Break	<= 15.0 MPa	<= 2180 psi	after aging (240h, 135°C); IEC 60811-1-2
	>= 20.0 MPa	>= 2900 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
	2.3	2.3	

Dielectric Constant Electrical Properties	Metric @Frequency 50000 Hz	English @Frequency 50000 Hz	IEC 60250 Comments
Dielectric Strength	>= 22.0 kV/mm	>= 559 kV/in	IEC 60243
Dissipation Factor	0.00050 @Frequency 50000 Hz	0.00050 @Frequency 50000 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Zone 1	150 °C	302 °F	
Zone 2	185 °C	365 °F	
Zone 3	185 °C	365 °F	
Zone 4	185 °C	365 °F	
Die Temperature	185 °C	365 °F	
Melt Temperature	190 - 195 °C	374 - 383 °F	
Shelf Life	18.0 Month	18.0 Month	

Descriptive Properties	Value	Comments
Hot Set Test, %	0	200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation
	60	210°C, 0.2 MPa; IEC 60811-2-1; Elongation under load

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