

Borealis Visico™/Visico™ LE4421M/LE4431M Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Visico™ LE4421M / Visico™ LE4431M is a two-part silane crosslinkable insulation system, specially designed for insulation applications. Applications: Visico™ LE4421M / Visico™ LE4431M is intended for insulation of XLPE medium voltage cables with rated voltages up to 36 kV. Specifications: Visico™ LE4421M / Visico™ LE4431M 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; HD 603 S1; HD 604 S1; and HD 620 S1. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-VisicoVisico-LE4421MLE4431M-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 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	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	2.3 @Frequency 50000 Hz	2.3 @Frequency 50000 Hz	IEC 60250
Dielectric Strength	>= 22.0 kV/mm	>= 559 kV/in	IEC 60243
	0.00050	0.00050	

Designation Factor Electrical Properties	Metric @Frequency 50000 Hz	English @Frequency 50000 Hz	IEC 60250 Comments
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Processing Properties	Metric	English	Comments
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	200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load

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