Visico™ LE4421 / Visico ™LE4438

Low Density Polyethylene

Borealis AG

Message:

Visico LE4421 / Visico LE4438 is a silane crosslinkable natural compound designed for low voltage power cables up to 6 kV.
Visico LE4421 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 LE4421 , insulation with excellent thermo-oxidative stability, also in contact with copper as well as aluminium, is achieved.

General Information			
Features	Low Density		
Uses	Cable Jacketing		
Agency Ratings	ASTM D 1248, I, Class C, Cat. 4 HD 603 S1 HD 604 S1 IEC 60502-1 NEMA WC-70 NEMA WC-71		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	0.923	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, F20)	> 96.0	hr	ASTM D1693B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 1 sec)	52		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	> 15.0	MPa	ISO 527-2/250
Tensile Strain (Break)	> 300	%	ISO 527-2/250
Aging	**Nominal Value**	**Unit**	**Test Method**
Mechanical Properties After Aging in Air Oven, 135°C, 240 hr (Change in Tensile Strength)	< 25	%	IEC 60811
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -76.0	°C	ASTM D746
Hot Set [2]			IEC 60811-2-1
Elongation under load : 200°C	60	%	
Permanent deformation : 200°C	0.0	%	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093

Electric Strength	> 22	kV/mm	IEC 60243-1
Dielectric Constant (50 Hz)	< 2.30		IEC 60250
Dissipation Factor (50 Hz)	< 5.0E-4		IEC 60250

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	170	°C
Cylinder Zone 4 Temp.	170	°C
Die Temperature	170	°C

NOTE	
1.	Mixture 95:5
2.	0.20 MPa

Recommended distributors for this material

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