

Visico™ LE4421M / Visico™LE4431M

Polyethylene

Borealis AG

Message:

Visico LE4421M / Visico LE4431M is a two-part silane crosslinkable insulation system, specially designed for insulation applications.

General Information			
Features	Good Surface Finish		
	Low to No Odor		
Uses	Cable Jacketing		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4		
	HD 603 S1		
	HD 604 S1		
	HD 620 S1		
	IEC 60502		
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, 10% Igepal, F20)	> 96.0	hr	IEC 60811-4-1/B
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)	< -75	%	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

NOTE			
1.	Mixture 95:5		
2.	0.20 MPa		

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