

Visico™ ME4425 / Visico™ LE4438

Low Density Polyethylene

Borealis AG

Message:

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 aluminium, is achieved.

General Information			
Uses	Cable Jacketing		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4		
	HD 603 S1		
	HD 604 S1		
	IEC 60502-1		
	NEMA WC-70		
	NEMA WC-71		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.930	g/cm ³	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)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 20.0	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 : 210°C	60	%	
Permanent deformation : 210°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.	185	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 4 Temp.	185	°C	
Melt Temperature	190 to 195	°C	
Die Temperature	185	°C	
NOTE			
1.	Mixture 95:5		
2.	0.20 MPa		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

