

Visico™ LE4423/LE4437

Crosslinked Polyethylene

Borealis AG

Message:

Visico LE4423/LE4437 is a scorch retardant, moisture-crosslinking polyethylene compound for low voltage insulation

General Information	
Additive	Antioxidant
	Carbon Black
	Metal Deactivator
	Scorch Resistant
	UV Stabilizer
Features	Antioxidant
	Crosslinkable
	Good Thermal Stability
	Good UV Resistance
	Good Weather Resistance
	Oxidation Resistant
Uses	Cable Jacketing
	Low Voltage Insulation
	Power Cable Jacketing
Wire Types	RW-90
	USE
	USE-2
Agency Ratings	ASTM D 2655
	CSA C-22.2 No. 38
	DIN VDE 0207, 02Y11
	NFC 32-090
	NFC 33-210
	UL 854
Appearance	Black
	Colors Available
	Natural Color
Forms	Pellets

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	0.923	g/cm ³	
-- ²	0.941	g/cm ³	
Melt Mass-Flow Rate (MFR) ³	0.90	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	15.0	MPa	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Retention of Tensile Properties - After Ageing 168 h (121°C)	> 90	%	IEC 60811-1-2
Hot Set			ICEA T-28-562
150°C ⁴	< 5.0	%	
150°C ⁵	< 50	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	> 22	kV/mm	ASTM D149
Dielectric Constant (23°C, 60 Hz)	2.30		ASTM D150
Dissipation Factor (23°C, 60 Hz)	5.0E-5		ASTM D150
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	146	°C	
Cylinder Zone 2 Temp.	155	°C	
Cylinder Zone 3 Temp.	163	°C	
Cylinder Zone 4 Temp.	171	°C	
Die Temperature	177	°C	
NOTE			
1.	LE4423		
2.	LE4437		
3.	LE4423		
4.	Permanent deformation, 0.20 MPa		
5.	Elongation under load, 0.20 MPa		

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