

Visico™ LE4423/LE4432

Crosslinked Polyethylene

Borealis AG

Message:

Visico™ LE4423/LE4432 is a Crosslinked Polyethylene product. It can be processed by extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Wire & Cable.

Characteristics include:

Antioxidant

Carbon Black

Crosslinkable

Good UV Resistance

Good Weather Resistance

General Information	
Additive	Antioxidant
	Carbon Black (3%)
	Metal Deactivator
	Scorch Resistant
Features	Antioxidant
	Crosslinkable
	Good Thermal Stability
	Good UV Resistance
	Good Weather Resistance
	Oxidation Resistant
Uses	Cable Jacketing
	Low Voltage Insulation
Wire Types	RW-90
	USE
	USE-2
Agency Ratings	ASTM D 2655
	CSA C-22.2 No. 38
	DIN VDE 0207, 2X11
	NFC 32-090
	NFC 33-210
	UL 854
Appearance	Black
Forms	Pellets

Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	0.923	g/cm ³	
-- ²	1.05	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	
Retention of Tensile Properties (121°C) ⁴	> 90	%	
Hot Set			ICEA T-28-562
150°C ⁵	< 5.0	%	
150°C ⁶	< 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-4		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.	LE4432		
3.	LE4423		
4.	After Ageing 7 d		
5.	Permanent deformation, 0.20 MPa		
6.	Elongation under load, 0.20 MPa		

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