

Visico™ LE4423/LE4460/ LE4432

Polyethylene
Borealis AG

Message:

Visico LE4423/LE4460/ LE4432 is a scorch retardant, moisture-crosslinking polyethylene compound for low voltage insulation
LE4423/LE4460/LE4432 is a black, halogen-based flame retardant, moisture-induced crosslinking polyethylene compound that is designed for use as low voltage wire insulation and jacketing. The combination of VISICO LE4423 base resin, along with the LE4460 brominated flame retardant masterbatch and the LE4432 tin catalyst masterbatch provides a highly scorch retardant compound with excellent thermal stability and good flame properties.
LE4423/LE4460/LE4432 contains a patented scorch retardant additive (SRA) that increases the processing window for a moisture crosslinking compound and minimizes the tendency for premature crosslinking in the extruder, head or die.
LE4432 also provides, in addition to catalyst, a stabilization package containing suitable antioxidants, a metal deactivator and a 25% loading of fine particle size carbon black for UV weather resistance. Properly mixed, during the extrusion process, LE4423/LE4460/LE4432 exhibits excellent thermal stability to oxidation. The final insulation or jacketing will also contain 2.5% of suitable carbon black to ensure satisfactory UV weathering stability.

General Information			
Features	Flame Retardant		
	Good Thermal Stability		
	Good UV Resistance		
Uses	Cable Jacketing		
	Wire & Cable Applications		
	Wire Jacketing		
Agency Ratings	ASTM D 2655		
	EC 502		
	HD 603 S1		
	HD 604 S1		
	NBN C 33-321		
	NEMA WC-70		
	NEMA WC-71		
Appearance	NF C 32-090		
	Black		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
Base Resin	0.923	g/cm³	
-- 1	1.05	g/cm³	
-- 2	2.00	g/cm³	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	16.5	MPa	ASTM D638

Tensile Elongation (Break)	300	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Elongation (Break)	300	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Mechanical Properties After Aging in Air Oven, 121°C, 168 hr (Change in Tensile Strength)	< -10	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Hot Creep ³			
Elongation under load : 150°C	< 50	%	ICEA T-28-562
Permanent deformation : 150°C	< 5.0	%	
Horizontal Flame Test ⁴	Pass		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Constant (60 Hz)	2.50		ASTM D150
Dissipation Factor (60 Hz)	5.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	146	°C	
Cylinder Zone 2 Temp.	163	°C	
Cylinder Zone 3 Temp.	171	°C	
Cylinder Zone 4 Temp.	171	°C	
Die Temperature	177	°C	
NOTE			
1.	Catalyst		
2.	Masterbatch		
3.	0.20 MPa		
4.	14 AWG-30 mil		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT