Visico™ LE4423/LE4460/ LE4437

Polyethylene

Borealis AG

Message:

Visico LE4423/LE4460/LE4437

LE4423/LE4460/LE4437 is a natural, moisture-induced crosslinking polyethylene compound that is designed for use as low voltage wire insulation and jacketing. The combination of a VISICO LE4423 base resin, along with the LE4460 brominated flame retardant masterbatch and the LE4437 catalyst, provides a highly scorch retardant compound with excellent thermal stability and good retardant flame properties. LE4423/LE4460/LE4437 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.

A finished compound that is composed of 75 parts of LE4423 mixed with 20 parts of LE4460 and 5 parts of LE4437 is recognized by Underwriters Laboratories as VISICO HORIZONTAL. VISICO HORIZONTAL is designed to reduce normal PE flame spread characteristics and achieve an HB-1 flame rating on 14 AWG wires and larger. LE4437 also provides, in addition to catalyst, a stabilization package containing suitable antioxidants, a metal passivator and a metal deactivator. Properly mixed, during the extrusion process, LE4423/LE4460/LE4437 exhibits excellent thermal stability to oxidation. LE4423/LE4460/LE4437 is readily pigmented to a variety of colors using standard wire & cable color concentrates designed for thermoplastic or crosslinked polyethylene. UV wether resistance is obtained by the addition of a suitable carbon black or UV additive. Using Visico LE4432 in place of LE4437 combines a tin catalyst along with the proper carbon black to provide a black, UV resistant, moisture crosslinking cable insulation.

General Information					
Features	Flame Retardant Good Thermal Stability				
	Good UV Resistance				
Uses	Cable Jacketing				
	Wire & Cable Applications				
	Wire Jacketing				
Agency Ratings	ASTM D 2655				
	CSA C-22.2 No. 1790-00				
	CSA C-22.2 No. 38				
	EC 502				
	HD 603 S1				
	NBN C 33-321				
	NF C 33-209				
	NF C 33-210				
Appearance	Black				
Processing Method	Extrusion				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity			ASTM D792		
Base Resin	0.923	g/cm³			
¹	0.941	g/cm³			
²	2.00	g/cm³			

Methas-Flow Rate (MRR) (190*C/2-16 (3-90g/10 minASTM D1238MechanicalNominal ValueUnitTest MethodTensile Elongation (Break)300%ASTM D638Tensile Elongation (Break)300%ASTM D428ElastornersNominal ValueUnitTest MethodAgingNominal ValueUnitTest MethodMechanical Eroperties After Aging in AlonNominal ValueUnitTest MethodMechanical Eroperties After Aging in Alon%Nominal ValueKeto ScienceMechanical Eroperties After Aging in AlonNominal ValueValueKeto ScienceMechanical Eroperties After Aging in Alon%Test MethodKeto ScienceMechanical Eroperties After Aging in Alon%Keto ScienceKeto ScienceNominal Value%%Keto ScienceKeto SciencePermanent deformation< 50%Keto ScienceKeto ScienceVolume Resistivity1.0E+16ohms-cmASTM D123Dielectric Strength.22kl/mmASTM D123Dielectric Strength.50VolumeASTM D130Disipation Factor (6H2).50KortKeto ScienceDisipation Factor (6H2).50KortKeto ScienceKeto ScienceOptimer Zone Trenp16Nominal ValueVolumeKeto ScienceQuinder Zone Trenp50.50.50.50.50Quinder Zone Trenp50.50.50.50Quinder Zone Trenp.<				
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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

