

Visico™ ME4425/LE4462

Crosslinked Polyethylene

Borealis AG

Message:

Visico ME4425/LE4462 is a scorch retardant silane crosslinkable MDPE track resistant cable insulation. ME4425/LE4462 is a combination of ME4425, a Medium Density VISICO base resin and a masterbatch. LE4462, which contains catalyst, carbon black, UV stabilizers and antioxidants. The LE4462 masterbatch accelerates the moisture-induced crosslinking reaction and imparts track resistance, resistance to degradation by ultraviolet light and thermal stability to the final product.

General Information			
Additive	Scratch Resistance		
	Antioxidation		
	Carbon black		
	UV stabilizer		
Features	Lower die-out expansion		
	Antioxidation		
	Antioxidation		
	Good UV resistance		
	Crosslinkable		
	Track Resistance		
	Thermal stability, good		
	Medium density		
Uses	Cable sheath		
	Insulating material		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	51		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	16.0	MPa	ASTM D638
Aging	Nominal Value	Unit	
Retention of Tensile Properties - After Aging 168 hr (136°C)	85	%	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< 76.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	> 20	kV/mm	

Additional Information

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	180	°C
Cylinder Zone 4 Temp.	190	°C
Melt Temperature	160 - 210	°C
Die Temperature	190	°C

NOTE

1. Base Resin

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