

Borlink™ LE0500

Polyethylene

Borealis AG

Message:

Borlink LE0500 is a Supersmooth crosslinkable black polyethylene compound, specially designed for semiconductive conductor screen and bonded insulation screen of energy cables.

General Information			
Additive	Carbon black		
Features	Crosslinkable		
	Thermal stability, good		
Uses	Wire and cable applications		
	Insulating material		
Agency Ratings	AEIC CS8		
	AEIC CS9		
	BS 6622		
	CENELEC HD 620 S1		
	CENELEC HD 632 S1		
	DIN VDE 0276-620		
	DIN VDE 0276-632		
	ICEA S-108-720		
	ICEA S-93-639		
	ICEA S-94-649		
	ICEA S-97-682		
	IEC 60502-2		
	IEC 60840		
	IEC 62067		
	NF C 33-223		
	NF C 33-226		
	UTE C 33-223		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Moisture	100	ppm	Karl Fisher
Thermoset ¹ (200°C)	25	%	IEC 60811-507
Gottfert Elastograph	1.4	N·m	ISO 6502
Mechanical	Nominal Value	Unit	Test Method

Tensile Stress	> 15.0	MPa	ISO 527-2/25
Tensile Strain (Break)	180	%	ISO 527-2/25
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	< 20	%	ASTM D573
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
23°C	25	ohms·cm	ASTM D991, ISO 3915
90°C	50	ohms·cm	ISO 3915
Extrusion	Nominal Value	Unit	
Melt Temperature	120 - 135	°C	
Extrusion instructions			
Hopper Drying (4 h): 60 °C			
NOTE			
1.	0.2 MPA		

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