

Borlink™ LE0592

Polyethylene

Borealis AG

Message:

Borlink LE0592 is a crosslinkable black polyethylene compound, specially designed for semiconductive conductor screen and bonded insulation screen of energy cables.

General Information			
Additive	Carbon black		
Features	Crosslinkable		
	Heat resistance, high		
	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 0276-263		
	DIN VDE 0276-620		
	ICEA S-108-720		
	ICEA S-93-639		
	ICEA S-94-649		
	ICEA S-97-682		
	IEC 60502-2		
	IEC 60840		
	NF C 33-223		
	NF C 33-226		
	UTE C 33-223		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Moisture	200	ppm	Karl Fisher
Thermosetting-Elongation under load ¹ (200°C)	25	%	IEC 60811-507
Hot pressing test-Permanent deformation ² (200°C)	0.0	%	IEC 60811-507

Gottfert Elastograph	1.2	N·m	ISO 6502
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	22.0	MPa	ISO 527-2/25
Tensile Strain (Break)	200	%	ISO 527-2/25
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	< 20	%	ISO 527
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ISO 3915
23°C	< 1.0E+2	ohms·cm	ISO 3915
90°C	< 1.0E+3	ohms·cm	ISO 3915
Extrusion	Nominal Value	Unit	
Melt Temperature	120 - 135	°C	
Extrusion instructions			
Hopper Drying: 60°C			
NOTE			
1.	0.20 MPa		
2.	0.20 MPa		

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