

Borlink™ LE4253DC

Polyethylene
Borealis AG

Message:

Borlink LE4253DC is a crosslinkable natural polyethylene compound based on Supercure technology, specially designed for insulation of energy cables.

General Information			
Features	Crosslinkable		
Uses	Insulation		
	Wire & Cable Applications		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (Base Resin)	0.922	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Moisture	< 200	ppm	Karl Fisher
Hot Set ¹			IEC 60811-507
Elongation under load : 200°C	< 180	%	
Permanent deformation : 200°C	< 15	%	
Gottfert Elastograph	< 0.65	N·m	ISO 6502
Methanol Wash	< 800	ppm	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 17.0	MPa	ISO 527-2/500
Tensile Strain (Break)	> 450	%	ISO 527-2/500
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strain at Break in Air (135°C, 168 hr)	< 20	%	IEC 60811-401
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength ²	> 22	kV/mm	IEC 60243-1
Dielectric Constant (50 Hz)	< 2.30		IEC 60250
Dissipation Factor (50 Hz)	< 3.0E-4		IEC 60250
Extrusion	Nominal Value	Unit	
Melt Temperature	125 to 135	°C	
NOTE			
1.	0.20 MPa		
2.	50 Hz		

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