

Borlink™ LS4201R

Polyethylene

Borealis AG

Message:

Borlink LS4201R is a crosslinkable natural polyethylene compound based on Supercure technology, specially designed for insulation of energy cables.

General Information			
Features	Crosslinkable		
	Good Electrical Properties		
Uses	Insulation		
	Wire & Cable Applications		
Agency Ratings	CENELEC HD 620 S1, Part 1, table 2A, DIX 3-14		
	ICEA S-108-720		
	IEC 60502-2		
	IEC 60840		
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	75	%	
Permanent deformation : 200°C	5.0	%	
Gottfert Elastograph	0.56 to 0.67	N · m	ISO 6502
Methanol Wash	800	ppm	Internal Method
Scorch Time - t10	1.0	min	ISO 6502
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	> 17.0	MPa	ISO 527-2/250
Tensile Strain (Break)	> 450	%	ISO 527-2/250
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	> 30	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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