

Borlink™ LE4212

Polyethylene

Borealis AG

Message:

Borlink LE4212 is a crosslinkable natural polyethylene compound, specially designed for insulation of energy cables.

General Information			
Features	Crosslinkable		
Uses	Insulation		
	Wire & Cable Applications		
Agency Ratings	AEIC CS8		
	BS 6622		
	CENELEC HD 620 S1, Part 1, table 2A, DIX 3-14		
	DIN VDE 0276-620		
	ICEA S-94-639		
	ICEA S-94-649		
	ICEA S-97-682		
	IEC 60502-2		
	IEC 60840		
	NF C 33-223		
Processing Method	UL 1072		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Base Resin)	0.923	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	17.0	MPa	ASTM D638
Tensile Elongation ² (Break)	400	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (136°C, 168 hr)	10	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Hot Creep ³			ICEA T-28-562
Elongation under load : 150°C	< 75	%	
Permanent deformation : 150°C	< 5.0	%	
Hot Set			IEC 60811-507
Elongation under load : 200°C ⁴	< 75	%	

Permanent deformation : 200°C ⁵	< 5.0	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	> 21	kV/mm	ASTM D149
Dielectric Constant (50 Hz)	< 2.30		ASTM D150
Dissipation Factor (50 Hz)	5.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	125 to 135	°C	
NOTE			
1.	500 mm/min		
2.	500 mm/min		
3.	29 psi		
4.	0.20 MPa		
5.	0.20 PMA		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

