

Borealis PE LE1120

Low Density Polyethylene

Borealis AG

Message:

It is a low density polyethylene compound intended for the insulation of radio frequency coaxial cables. BorcelLE1120 is designed to give the lowest possible cable attenuation by the selection of electrical clean feedstock and contains no additives.

General Information			
Features	Low density		
Uses	Cable sheath		
	Electrical/Electronic Applications		
	Wire and cable applications		
	Insulating material		
	Foam		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3, Grade E1		
	ASTM D 1248, I, Class A, Cat. 3, Grade E2		
	ASTM D 1248, I, Class A, Cat. 3, Grade E3		
	EN 50117		
	EN 50290-2-23		
	IEC 61196		
	ISO 1872 PE KGN 23D045		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	12.2	MPa	ISO 527-2/50
Tensile Strain (Break)	500	%	ISO 527-2/50
Electrical	Nominal Value		Test Method
Dielectric Constant			
1 MHz	2.28		IEC 60250
1.90 GHz	2.28		Internal method
Dissipation Factor			
1 MHz	4.0E-5		IEC 60250
1.90 GHz	1.5E-4		Internal method
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	

Cylinder Zone 2 Temp.	190	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 4 Temp.	145	°C
Cylinder Zone 5 Temp.	135	°C
Adapter Temperature	135 - 140	°C
Die Temperature	220	°C

Extrusion instructions

Screw Cooling: 120°C Flange Temperature: 135°C Head Temperature: 130°C

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Recommended distributors for this material

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