

# Borealis PE HE1106

High Density Polyethylene

Borealis AG

Message:

HE1106 is a fully formulated compound for physical foamed coaxial cable insulations  
It is based mainly on high density polyethylene and a nucleating agent to initiate the gas injection foaming process.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	High density		
	Foamable property		
Uses	Foam		
	Coaxial cable sheath material		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 3		
	EN 50117		
	EN 50290-2-23		
	IEC 61196		
	ISO 1872 PE KEGHN 50D090		
Processing Method	Gas-Assisted Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (140°C/5.0 kg)	7.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strain (Break)	300	%	ISO 527-2/50
Electrical	Nominal Value		Test Method
Dielectric Constant			
1 MHz	2.34		IEC 60250
1.80 GHz	2.34		Internal method
Dissipation Factor			
1 MHz	6.0E-5		IEC 60250
1.80 GHz	1.0E-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

Extrusion instructions

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

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