

Borealis PE ME1244

Medium Density Polyethylene

Borealis AG

Message:

It is a fully formulated compound for chemical foamed telesingles. Borcell ME1244 is a medium-density polyethylene compound containing chemical blowing agent.

General Information			
Additive	Foaming agent		
Features	Medium density		
Uses	Cable sheath		
	Insulating material		
	Foam		
Agency Ratings	ASTM D 1248, II, Class A, Cat. 4		
	EN 50290-2-23		
	EN 50407		
	IEC 60708		
	ISO 1872 PE KEGHN 33D006		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.937	g/cm ³	ISO 1183
-- ²	0.934	g/cm ³	ISO 1183
Apparent Density	0.50 - 0.60	g/cm ³	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
--	11.0	MPa	IEC 60811-501
--	11.0	MPa	ISO 527-2/50
Tensile Strain			
Fracture	500	%	IEC 60811-501
Fracture	500	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time ³ (200°C)	50	min	IEC 60811-410
Resistance to Thermal Ageing ⁴ (105°C)	2.1	month	IEC 60811-408
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.31		IEC 60250
Dissipation Factor (1 MHz)	5.0E-4		IEC 60250
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	155	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 4 Temp.	195	°C
Adapter Temperature	195	°C
Melt Temperature	195 - 200	°C
Die Temperature	195	°C

Extrusion instructions

Conductor Preheating Temperature: 100 - 120°C

NOTE

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|----|-----------------------------|
| 1. | Compound |
| 2. | Base Resin |
| 3. | Expanded (35 %) insulation |
| 4. | Expanded (35 %) insulation |

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