

Borcell™ HE1345

High Density Polyethylene

Borealis AG

Message:

It is a fully formulated compound for chemical foamed telesingles which passes the Telcordia Pedestal test. Borcell HE1345 is a high-density polyethylene compound containing chemical blowing agent.

Borcell HE1345 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

BS 6234: Type H03

EN 50290-2-23

IEC 60708

NF C32-060

General Information			
Additive	Foaming agent		
Features	Foamable property		
	Workability, good		
	Excellent appearance		
Uses	Cellular Insulation		
	Insulating material		
	Foam		
	Communication wire insulation material		
Forms	Particles		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.945	g/cm ³	ISO 1183
-- ²	0.942	g/cm ³	ISO 1183
Apparent Density	0.50 - 0.60	g/cm ³	ISO 60
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	13.0	MPa	IEC 60811-1-1
Yield	23.0	MPa	ISO 527-2/50
Tensile Strain			
Fracture	500	%	IEC 60811-1-1
Fracture	600	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (200°C)	> 200	min	IEC 60811-4-2/B
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.33		IEC 60250
Dissipation Factor (1 MHz)	4.0E-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
Die Temperature	195	°C

Extrusion instructions

Conductor preheating temperature: 110 to 120°C

NOTE

1. Compound, ISO 1872-2
2. Base resin, ISO 1872-2

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