

Borcell™ HE1344

High Density Polyethylene

Borealis AG

Message:

Borcell HE1344 .
It is a fully formulated compound for chemical foamed data cable insulation. Borcell 1344 is a high-density polyethylene compound containing chemical blowing agent.
Borcell HE1344 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:
EN 50173
EN 50288
EN 50290-2-23
IEC 60708
NF C32-060
BS 6234: Type H03

General Information			
Additive	Foaming agent		
Features	Good stability		
	Excellent appearance		
Uses	Cable sheath		
	Foam		
	Communication wire insulation material		
Agency Ratings	BS 6234 Type H03		
	EN 50173		
	EN 50288		
	EN 50290-2-23		
	IEC 60708		
	NF C 32-060		
Forms	Particles		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ISO 1183
-- ¹	0.945	g/cm ³	ISO 1183
-- ²	0.943	g/cm ³	ISO 1183
Apparent Density	0.50 - 0.60	g/cm ³	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield ³	13.0	MPa	IEC 60811-1-1
Yield	23.0	MPa	ISO 527-2/50
Tensile Strain			

Fracture ⁴	500	%	IEC 60811-1-1
Fracture	600	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (200°C)	50	min	IEC 60811-4-2/B
Resistance to Thermal Ageing (41°C)	2.1	month	IEC 60811-4-2/A
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	
Drying Temperature	110 - 140	°C	
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: 110 to 140°C Cooling water: 50°C			
NOTE			
1.	Compound, ISO 1872-2		
2.	Base resin, ISO 1872-2		
3.	50 mm/min		
4.	50 mm/min		

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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

