

Borealis PE HE1106

高密度聚乙烯

Borealis AG

Technical Data

产品说明

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.

Applications

- HE1106 is designed to use as physically foamed insulation for:
- Small to medium size coaxial cable constructions (type RG)

Specifications

HE1106 meets the following material classification:

- ISO 1872-PE, KEGHN, 50-D090
- ASTM D 1248 Type III, Category 3

The following cable material standards are met by HE1106:

- EN 50290-2-23

Cables manufactured with HE1106 using sound extrusion practice normally comply with the following cable product standards:

- IEC 61196
- EN 50117

Special Features

HE1106 consists of specially selected components to offer:

- Low attenuation over a wide range of frequencies
- High expansion degree to slightly above 80%
- Broad application window
- Uniform cell structure
- Smooth surface

总体

添加剂	• 成核剂
特性	• 成核的 • 高密度 • 可发泡性能
用途	• 泡沫 • 同轴电缆护套材料
机构评级	• ASTM D 1248, III, Class A, Cat. 3 • ISO 1872 PE KEGHN 50D090
加工方法	• Gas-Assisted Injection Molding

物理性能	额定值	单位制	测试方法
密度	0.950	g/cm ³	ISO 1183
熔速率 (熔体流动速率) (140°C/5.0 kg)	7.5	g/10 min	ISO 1133
机械性能	额定值	单位制	测试方法
拉伸应变 (断裂)	300	%	ISO 527-2/50
硬度	额定值	单位制	测试方法
肖氏硬度 (邵氏 D, 3 秒)	60		ISO 868
电气性能	额定值	单位制	测试方法
介电常数			
1 MHz	2.34		IEC 60250
1.80 GHz	2.34		内部方法

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电气性能	额定值	单位制	测试方法
耗散因数			
1 MHz	6.0E-5		IEC 60250
1.80 GHz	1.0E-4		内部方法
挤出	额定值	单位制	
料筒1区温度	160	°C	
料筒2区温度	190	°C	
料筒3区温度	185	°C	
料筒4区温度	145	°C	
料筒5区温度	135	°C	
接头温度	135 到 140	°C	
挤压说明			
Screw Cooling: 120°C			
Flange Temperature: 135°C			
Head Temperature: 130°C			