

Borealis PE HE3366

High Density Polyethylene

Borealis AG

Message:

It is a HDPE compound for solid insulation of telephone singles with high extrusion speed. HE3366 is designed as insulation for petroleum filled telephone cables. It is also suitable as outer skin in "foam-skin" constructions.

HE3366 meets the applicable requirements below using sound commercial extrusion practice and testing procedures:

ASTM D 1248 Type III, Class A, Category 4, Grade E8, E9

BS 6234: Type H03

DIN VDE 0818

EN 50288

EN 50290-2-23

IEC 60708

ISO 1872-PE, KCHL, 45 D-006

NF C32-060

General Information			
Additive	Antioxidation		
Features	Lower die-out expansion		
	Foamable property		
	Fast molding cycle		
	Good liquidity		
Uses	Insulation material for telephone lead-in line		
	Cable sheath		
	Foam		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4, Grade E8 , E9		
	BS 6234 Type H03		
	EN 50288		
	EN 50290-2-23		
	IEC 60708		
	NF C 32-060		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.945	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F20)	> 48.0	hr	IEC 60811-4-1/B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	61		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	23.0	MPa	ISO 527-2
Tensile Strain (Break)	600	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Oxidation Induction Time (200°C)	50	min	IEC 60811-410
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	22	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.33		IEC 60250
Dissipation Factor	6.0E-5		IEC 60250
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	165 - 230	°C	
Melt Temperature	220 - 250	°C	
Die Temperature	230	°C	
Extrusion instructions			
Conductor preheating temperature: 100 to 120 °CCooling water: 50 °C			
NOTE			
1.	ISO 1872-2		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT