

Borealis PE HE4873

High Density Polyethylene

Borealis AG

Message:

It is a fully formulated compound for physical foamed data cable insulation. HE4873 is a high-density polyethylene compound containing blowing agent for the production of foam or foam-skin insulation.

General Information			
Features	High density		
	Workability, good		
Uses	Wire and cable applications		
	Insulating material		
	Foam		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 3, Grade E1		
	ASTM D 1248, III, Class A, Cat. 3, Grade E3		
	EN 50288		
	EN 50290-2-23		
	IEC 61156		
	ISO 1872 PE KEGHN 45D045		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ISO 1183
Apparent Density	0.50 - 0.60	g/cm ³	
Melt Mass-Flow Rate (MFR) (140°C/5.0 kg)	3.8	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	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
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	165	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 4 Temp.	175	°C	
Cylinder Zone 5 Temp.	170	°C	

Adapter Temperature	200	°C
Die Temperature	220	°C
Extrusion instructions		

Screw Cooling: 120°C Flange Temperature: 190°C Head Temperature: 200°C

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

