Borealis HE1110

High Density Polyethylene

Borealis AG

Message:

HE1110 is a high density insulation compound. HE1110 has very good flow properties and is especially designed to avoid excessive die hard pressure and to minimize die build-up.

General Information			
Features	Good dimensional stability High density High liquidity		
Uses	Optical fiber cable Insulating material		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4, Grade E8 ASTM D 1248, III, Class A, Cat. 4, Grade E9 BS 6234 Type H03 ISO 1872 PE KHN 45D006		
Forms	Particles		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.945	g/cm³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	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 (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
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 (1 MHz)	6.0E-5		IEC 60250
Additional Information			
ESCR, IEC 60811-4-1/B, 50°C, 100% Igepal, F20: >48 hrOxygen Induction Time, IEC60811-4-2/B, 200°C, Al-pan: >50 minResistance to Thermal Ageing, IEC 60811, 105°C: >1500 hrPetroleum Jelly Absorption, IEC 60811-4-2: 5 %			

Extrusion	Nominal Value	Unit
Melt Temperature	170 - 230	°C

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