Borcell™ HE1123

High Density Polyethylene

Borealis AG

Message:

It is a high density polyethylene compound intended for the insulation of radio frequency coaxial cables. Borcell HE1123 is designed to give the lowest possible cable attenuation by the selection of electrical clean feedstock and contains no additives.
Borcell HE1123 is designed to be used as insulation for radio frequency coaxial cables having an extra high demand on low attenuation at high frequencies. By blending with a suitable stabilised LDPE component, such as Borcel LE1120, in an optimised ratio, prior to the extrusion, the lowest possible attenuation and good foaming properties can be achieved. Please find more information on applications below.

General Information			
Features	Pure/High Purity Foamable property Can foam No additive		
Uses	Cellular Insulation Mixing Foam Coaxial cable sheath material		
Forms	Particles		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	0.963	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 1 sec)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	600	%	ISO 527-2/50
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant			IEC 60250
1 MHz	2.35		IEC 60250
1.80 GHz	2.35		IEC 60250
Dissipation Factor			IEC 60250
1 MHz	5.0E-5		IEC 60250
1.80 GHz	6.0E-5		IEC 60250
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	135	°C	
Cylinder Zone 2 Temp.	145	°C	

Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 4 Temp.	190	°C
Cylinder Zone 5 Temp.	160	°C
Adapter Temperature	135 - 140	°C
Die Temperature	185	°C

Extrusion instructions
Head: 130 °C

NOTE	
1.	ISO 1872-2

Recommended distributors for this material

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