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Black Bimodal High Density Polyethylene Jacketing Compound for Energy and Communication Cables

Description

Borstar HE6062 is a black high density (HD) jacketing compound, which is produced with the Borealis proprietary Borstar bimodal process technology.

Borstar technology allows the manufacturing of polymers outside the traditional MFR and density range making it possible to optimize processability, reduce shrinkage and yet provide excellent physical toughness and environmental stress crack resistance (ESCR).

Borstar HE6062 contains 2.5% well-dispersed carbon black in order to ensure excellent weathering resistance.

Applications

Borstar HE6062 is designed for jacketing of energy and communication cables.

The physical toughness and very low water permeability of the compound make it an ideal solution especially for buried power cables. Borstar HE6062 offers a balance of properties giving advantages in manufacturing, installation and lifetime performance of energy and communication cables.

Specifications

Borstar HE6062 meets the following material classification:

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ASTM D 1248 Type III, Class C, Category 4, Grade E8, E9, J4, W8,9

The following cable material standards are met by Borstar HE6062:

EN 50290-2-24

DIN VDE 0207 Type 2YM3

ISO 1872-PE, KCHL, 45 D-006

DMP 2, 5, 7, 8, 9, 10, 11, 12, 14, 15

Cables manufactured with Borstar HE6062 using sound extrusion practice normally comply with the following cable product standards:

DIN VDE 0818 EN 187105 HD 603 S1, DMP 1, 2, 5, 7, 8 HD 632 S2, ST7 IEC 60502, Part 2, Type ST7 IEC 60708 IEC 60794 IEC 60840, Type ST7 HD 620 S2, Part 1, table 4B, DMP 2, 8-12, 14-15, 17 HD 620 S2, Part 1, table 4B, DMP 2, 8-12, 14-15, 17 UL 1072 Oil resistance I & II

Special features

Borstar HE6062 consists of specially selected components to offer:

Superior processability
Excellent environmental stress cracking resistance (ESCR)
Excellent abrasion & scratch resistance
Low water permeability

Low heat deformation Termite resistance Outstanding UV resistance Low shrinkage

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Excellent surface hardness

Physical Properties

Property	Typical Value Data should not be used for	Test Method specification work
Density (Base Resin)	946 kg/m³	ISO 1183
Density (Compound)	958 kg/m³	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,5 g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	2,0 g/10min	ISO 1133
Flexural Modulus	1.000 MPa	ISO 178
Tensile Strain at Break (50 mm/min)	1.000 %	ISO 527
Tensile Strength (50 mm/min)	33 MPa	ISO 527
Brittleness temperature	< -76 °C	ASTM D 746
Environmental Stress Crack Resistance (50 °C, Igepal 10 %, F0) 1	> 5.000 h	IEC 60811-406
Hardness, Shore D (1 s)	61	ISO 868
Pressure Test at High Temperature (115 °C, 6 h)	< 10 %	IEC 60811-508

¹ No crack

Electrical Properties

Property	Typical Value Test Method Data should not be used for specification work	
DC Volume Resistivity Dielectric Strength	10 PΩcm 20 kV/mm	IEC 60093 IEC 60243

Processing Techniques

Borstar HE6062 provides excellent surface finish and allows a broad processing window. Borstar HE6062 is suitable for most equipment designed for PVC/PE extrusion. To minimise shrink back gradient cooling with hot water, minimum 60°C in the first part of the cooling trough, is strongly recommended.

Extrusion

If preheating and/or drying is used, the maximum temperature should be 90°C.

Preheating	90 °C	Maximum recommended temperature
Melt temperature	180 - 190 °C	
Cooling water	60 °C	First part of cooling trough
		Minimum Temperature

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Packaging

Package: Bulk

Octabins Bags

Safety

The product is not classified as dangerous and is intended for industrial use only. Check and follow local codes and regulations!

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

