



Polyethylene LE0572

Description

LE0572 is a thermoplastic black polyethylene compound, specially designed for semiconductive strippable insulation screen of energy cables. It can be used in thermoplastic form or crosslinked via a grafting process.

Applications

LE0572 is intended for semiconductive strippable insulation screens for silane crosslinkable medium voltage cables with rated voltages up to 36 kV.

Specifications

LE0572 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

IEC 60502-2

Cenelec HD620 S2

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1140 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/21,6 kg)	29 g/10min	ISO 1133
Tensile Strain at Break (25 mm/min)	200 %	ISO 527
Tensile Strength (25 mm/min)	10 MPa	ISO 527
Moisture	< 500 ppm	Karl Fischer-titration

Electrical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
DC Volume Resistivity (23 °C)	< 100 Ωcm	ISO 3915
DC Volume Resistivity (90 °C)	< 2000 Ωcm	ISO 3915

Processing Techniques

LE0572 provides excellent surface finish when processing conditions are optimal. The actual conditions will depend on the type of equipment used. To produce a good and reliable cable, it is essential to ensure careful and very clean handling of the semiconductive material. Hence all material handling should preferably be conducted in closed systems and in clean room conditions. Practical advice is given in a separate brochure. Please contact your Borealis representative for more details.

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 Polyethylene
LE0572**Packaging**

Package: Smallbins

Storage

LE0572 has a shelf life of 18 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures between 10 - 30 °C (50 - 85 °F).

More information on storage is found in our "Safety data sheet" / "Product safety information sheet" for this product.

Safety

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal 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.

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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.

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