Polyethylene
Borlink™ LE7710

Thermoplastic Semiconductive Compound

Description

Borlink LE7710 is a thermoplastic black polyethylene compound, specially designed for semiconductive screen applications.

Applications

Borlink LE7710 is intended for semiconductive applications in medium voltage cables.

Specifications

Borlink LE7710 meets the applicable requirements as below when processed using sound extrusion practices and testing procedures

ISO 1872-E/BA, KHXY, 23-G200, C40

Special features

Borlink LE7710 is a ready-to-use black compound. The good distribution of carbon black and additives in Borlink LE7710 provides a chemically clean and smooth semiconductive screen.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	1135 kg/m³	ISO 1183
Tensile Strain at Break (25 mm/min) [1]	200 %	ISO 527
Tensile Strength (25 mm/min) [1]	11 MPa	ISO 527
Change of Tensile Properties After Ageing (168 h, 135 °C) [1]	< 20 %	IEC 60811-401
Moisture	300 ppm	Karl Fischer-titration

[1] Measured on crosslinked specimens

Electrical Properties

Property	Typical Value Data should not be used for specification work	Test Method
DC Volume Resistivity (23 °C)	< 100 Ohm.cm	ISO 3915
DC Volume Resistivity (90 °C)	< 1000 Ohm.cm	ISO 3915

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168

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Processing Techniques

Borlink LE7710 provides excellent surface finish and outstanding output rates, when processing conditions are optimized for the actual processing equipment and cable dimensions. Optimal conditions may vary according to the equipment used.

Extrusion

Typical processing temperature ranges for Borlink LE7710 are shown below:

Hopper drying (4 h)	60 °C	With dehumidified air
Melt temperature	120 - 185 °C	

Packaging

Package:	Smallbins
	Octabins

Storage

Borlink LE7710 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 of the product. For more information, contact your Borealis representative.

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