



Polyethylene Borlink™ LE7710

Thermoplastic Semiconductive Compound

Description

Borlink LE7710 is a thermoplastic black polyethylene compound, specially designed for semiconductive screen of power cables.

Applications

Borlink LE7710 is indented for semiconductive screens in medium voltage (MV) AC cables with rated voltages up to 36 kV ($U_m = 42$ kV).

The values are voltages between phases as defined in IEC 60183.

Specifications

Borlink LE7710 is expected to meet the applicable requirements included in the below mentioned standards provided it is processed using sound material handling, extrusion and crosslinking practices as well as appropriate testing procedures. This applies up to the maximum recommended voltage level indicated in "Applications" section above since some standards cover wider voltage ranges.

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	Test Method
Data should not be used for specification work		
Density	1135 kg/m ³	ISO 1183
Tensile Strain at Break (25 mm/min) ¹	> 150 %	ISO 527
Tensile Strength (25 mm/min) ¹	> 15 MPa	ISO 527
Moisture	300 ppm	ISO 15512

¹ Measured on crosslinked specimens

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)	< 1000 Ωcm	ISO 3915

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