



# Polyethylene LE0574

## Description

**LE0574** is a thermoplastic black polyethylene compound, specially designed for strippable semiconductive screen applications. It can be used in thermoplastic form or crosslinked via a grafting process.

## Applications

**LE0574** is intended for strippable semiconductive shield for silane crosslinkable medium voltage cables with rated voltages up to 36 kV.

## Specifications

**LE0574** meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

BS 6622  
IEC 60502

ISO 1872-EVAC, KHYX, 40-G090, C35  
NF C33-223

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	1140 kg/m <sup>3</sup>	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/21,6 kg)	10 g/10min	ISO 1133
Tensile Strain at Break (25 mm/min)	200 %	ISO 527
Tensile Strength (25 mm/min)	12 MPa	ISO 527
Hardness, Shore D ( 1 s)	56	ISO 868
Moisture (500 ppm)	< 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 Ohm.cm	ISO 3915
DC Volume Resistivity (90 °C)	< 1000 Ohm.cm	ISO 3915

## Processing Techniques

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.

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



# Polyethylene LE0574

## Extrusion

Barrel 1	170 °C
Barrel 2	180 °C
Barrel 3	185 °C
Barrel 4	190 °C
Barrel 5	190 °C
Head	190 °C
Min allowed Melt temperature	180 °C

## Packaging

Package: Smallbins

## Storage

**LE0574** 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

The product is not classified as a dangerous preparation.

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