



# Polyethylene LE6006



扫一扫上面的二维码图案，加我为朋友。

## Description

### LE6006

It is a low loss LDPE compound for coaxial cables. LE6006 contains a special type of antioxidant, which does not adversely affect the electrical properties.

## Applications

LE6006 is intended for:

Bamboo constructed cables  
Coaxial cables  
Inner skin of radio frequency cables  
Telephone wires

## Specifications

LE6006 meets the following material classification:

ISO 1872-PE, KGHN, 18-D003  
ASTM D 1248 Type I, Class A, Category 5, Grade E4, E5

The following cable material standards are met by LE6006:

EN 50290-2-23<sup>1</sup>  
DIN VDE 0207, 2YI3

<sup>1</sup> Appropriate parts

Cables manufactured with LE6006 using sound extrusion practice normally comply with the following cable product standards:

IEC 61196  
EN 50117

## Special features

LE6006 consists of specially selected components to offer:

Low dielectrical loss  
Smooth surface  
Excellent surface finish  
High output

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



# Polyethylene LE6006



扫一扫上面的二维码图案，加我为朋友。

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	918 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	0,3 g/10min	ISO 1133
Tensile Strain at Break (50 mm/min)	600 %	ISO 527
Tensile Strength (50 mm/min)	15 MPa	ISO 527
Brittleness temperature	< -76 °C	ASTM D 746
Environmental Stress Crack Resistance (50 °C) (Igepal 100 %), (F20)	> 96 h	IEC 60811-406
Hardness, Shore D ( 1 s)	50	ISO 868

## Electrical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Dielectric constant (1 MHz)	2,29	IEC 60250
DC Volume Resistivity	10 POhm.cm	IEC 60093
Dielectric Strength	22 kV/mm	IEC 60243
Dissipation Factor (1 MHz)	0,00008	IEC 60250

## Processing Techniques

The actual conditions will depend on the type of equipment used.

For extrusion of solid coaxial cables it is recommended to use gradient cooling to minimise the risk of contraction-void formation.

For normal extrusion equipments and applications we suggest a melt temperature and a conductor preheating according to table below.

### Tooling

Pressure tooling is invariably required. Typically "on size" die diameters are used.

### Extrusion

Barrel	150 - 210 °C
Die head	200 °C
Melt temperature	180 - 220 °C
Conductor preheating temperature	80 - 100 °C

Please contact your local Borealis representative for specific assistance.

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



# Polyethylene LE6006



扫一扫上面的二维码图案，加我为朋友。

## Packaging

Package:           Bags  
                      Bulk  
                      Octabins

## Safety

Check and follow local codes and regulations!

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.

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