



INEOS

Olefins & Polymers Europe

Your partner in

**WIRE
AND CABLE**

For challenging
applications

INEOS

Polyethylene and Wire and Cable

INEOS Olefins & Polymers Europe offers polyethylene base resin solutions and selected compounds for the production of telecom and power cables worldwide.

Polyethylene is one of the most widely used polymers for cable insulation and jacketing. Its main characteristics are low dielectric loss, high dielectric strength, chemical inertness, low moisture up-take. These properties, coupled with ease of extrusion, makes polyethylene the material of choice for numerous telecom and power applications.



Wire and Cable insulation and jacketing are produced by extruding polyethylene through a cross-head die which delivers molten polymer onto the conductor (insulation) or the assembled insulated wires (jacketing).

INEOS's product range consists of polyethylene produced at our petrochemicals complex in Cologne (Germany) using our large LDPE autoclave reactors and proprietary LLDPE gas phase technology. INEOS also uses proprietary gas phase technology to produce C6-LLDPE in Grangemouth (Scotland), slurry loop technology in Lillo (Belgium) to produce MDPE grades and in Rosignano (Italy) to produce HDPE. INEOS also produces EBA grades which are available from our Bamble site in Norway.

Base Resin Solutions

INEOS Olefins & Polymers Europe offers solutions for telecom insulation and jacketing.

We also provide base resin systems for power cable insulation which includes grades for use with both silane and peroxide crosslinking technologies.

Stringent control of our manufacturing processes guarantees the high level of product cleanliness demanded by the energy industry for higher voltages applications. To ensure we continually meet these specifications we have made significant investments in specialised QA equipment.

In addition, we also offer traditional compounds in both telecom and power applications with additives to improve ageing resistance and to protect against copper catalysed degradation.

Our laboratory in Brussels is the INEOS centre of polymer technical expertise and provides a full range of electrical testing equipment and analysis techniques to support our product development activities. This laboratory also houses our well equipped full Wire & Cable extrusion line which has been designed for thermoplastics and Monosil® extrusion.



Recommended Base Resins for Cables

Grade	MFR (g/10min) 190°C/216kg	Density (kg/m ³)	Material	Typical applications
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Energy cables - low voltage insulation

BPD2142	1	930	LDPE	Unstabilised - Monosil® & Sioplas®
BPD3642	3	920	LLDPE	Unstabilised - C6 comonomer - Improved XLinking - Monosil® & Sioplas®
BPD3669	3.3	926	LLDPE	Unstabilised - C6 comonomer - Improved XLinking - Monosil® & Sioplas®
BPD3801	5.5	916	m-LLDPE	Metallocene - Unstabilised - Excellent high speed processing - Monosil® and Sioplas®
BPD2167	0.3	930	LDPE	Natural - Unstabilised - Overhead cables - Monosil®

Energy cables - medium voltage clean insulation

BPD2000	2	923	LDPE	Unstabilised - Clean - Direct Peroxide Injection
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Energy cables - medium and high voltage super clean insulation

BPD2000E	2	923	LDPE	Unstabilised - Super clean - Direct Peroxide Injection
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Communication cables insulation

BPD8063	1.5	923	LDPE	Non staining antioxidant - Low dielectric loss - Coaxial and control cables
BP28D780	0.25	929	LDPE	Stabilised - Outstanding processing

Energy and communication cables jacketing

BPD3642	3	920	LLDPE	Natural - Unstabilised - Good stress cracking performance
BPD3669	3.3	926	LLDPE	Natural - Unstabilised - Good stress cracking performance
BPD4020	0.2	938	MDPE	Natural - Stabilised - Excellent stress cracking performance
BPD4035	0.2	949	MDPE	Black - Stabilised - Excellent stress cracking performance
BPD3801	5.5	916	m-LLDPE	Natural - Metallocene - Very good stress cracking performance and processing
BPD4720	0.6	945	HDPE	Natural - Stabilised - Excellent extrudability and stress-cracking resistance
BPD4720UA	0.6	945	HDPE	Natural - Stabilised (UV) - Excellent extrudability and stress-cracking resistance

Density should be measured according to ISO 1183 method D, ISO 1872/1 conditioning unless otherwise stated MFR measured according to ISO 1133, condition D unless otherwise stated.

About us

INEOS is one of the world's largest chemical companies, founded in 1998. INEOS Olefins & Polymers Europe is a leading producer of olefins and polyolefins.

INEOS Olefins & Polymers Europe offers a full range of high value polyolefins solutions for market applications such as food and industrial packaging, pipe and automotive through dedicated sales, and technical service teams.

INEOS is a safe and environmentally responsible company. We are engaged in developing our sustainable agenda to improve our operations and to implement sustainable solutions for our customers. This includes products that offer lightweighting, energy efficiency, durability (extended lifetime) or conservation of resources. We care.



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We offer a full range of high value polyolefins solutions for Wire and Cable.

INEOS Olefins & Polymers Europe



Please visit our website at www.ineos.com
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