

Your partner in Wire & Cable

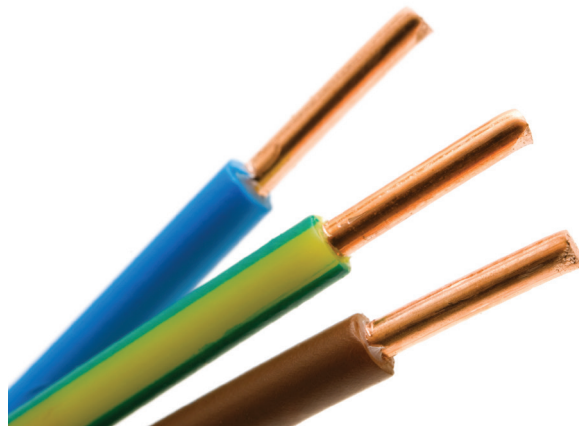
Polyethylene and wire and cable

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 and slurry loop technology in Lillo, Belgium to produce MDPE grades. **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.



Unique products for challenging applications

Grade	MFR (g/10min) 190°C / 2.16kg	Density (kg/m ³)	Material	Typical applications
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Energy cables - low voltage insulation

BPD2142	1,0	930	LDPE	Unstabilised - Monosil® & Sioplas®
BPD3642	3,0	920	LLDPE	Unstabilised - C6 comonomer - Improved XLinking - Monosil® & Sioplas®
BPD3669	3,3	926	LLDPE	Unstabilised - C6 comonomer - Improved XLinking - Monosil® & Sioplas®
BPD8128	0,27	923	LDPE	Stabilised - Metal deactivator - Monosil®
BPD3801	5,5	916	m-LLDPE	Metallocene - Unstabilised - Excellent high speed processing - Monosil® and Sioplas®
PF6160AP	5,5	916	m-LLDPE	Metallocene powder - Free flowing - High liquid absorption - Monosil® and Sioplas®
BPD2167	0,3	930	LDPE	Natural - Unstabilised - Overhead cables - Monosil®
BPD8167	0,25	948	LDPE	Black - Strongly stabilised - Overhead cables - Monosil®

Energy cables - medium voltage clean insulation

BPD2070	0,28	923	LDPE	Unstabilised - Clean - Monosil®
BPD2000	2,0	923	LDPE	Unstabilised - Clean - Direct Peroxide Injection
BPD2008	0,75	923	LDPE	Unstabilised - Low sag - Clean - Direct Peroxide Injection

Energy cables - medium and high voltage super clean insulation

BPD2000E	2,0	923	LDPE	Unstabilised - Super clean - Direct Peroxide Injection
BPD2005	2,0	923	LDPE	Enhanced WTR grade - Super Clean - Direct Peroxide Injection

Communication cables insulation

BP28D780	0,25	929	LDPE	Stabilised - Outstanding processing
BPD8063	1,5	923	LDPE	Non staining antioxidant - Low dielectric loss - Coaxial and control cables

Energy and communication cables jacketing

BPD3642	3,0	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
B24D230	0,35	924	EBA	EBA (8% BA) - Medium filler loading - e.g. HFFR compounds
B28N230	8,0	924	EBA	EBA (15% BA) - High filler loading - High MI - e.g. HFFR or semiconductive compounds
B26H230	2,0	926	EBA	EBA (17% BA) - High filler loading - e.g. HFFR compounds

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