INEOS O&P Europe, your partner in Wire and Cable

Polyethylene and wire and cable

For the wire and cable market, INEOS O&P 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 excellent properties make it easy to use in many kinds of telecom and power applications, whereas its main characteristics include low dielectric loss, high dielectric strength, chemical inertness, low moisture up-take and ease of extrusion. Wire and cable insulation and jacketing are produced by extruding the polyethylene through a cross-head and delivering the molten polymer onto the bare conductor (insulation) or the assembled insulated wires (jacketing).

Our product range is based on polyethylene from the large autoclave LDPE and INEOS O&P Europe gas phase LLDPE reactors at our extensive petrochemicals complex in Cologne, Germany. C6 LLDPE is available from our gas phase reactor in Grangemouth, Scotland and MDPE from our slurry HDPE reactors in Lillo, Belgium. EBA grades are also available from our Bamble production site in Norway.

Base resins solutions

Polyethylene can be used in its thermoplastic form for telecom insulation and jacketing. INEOS O&P Europe specialises in providing base resin systems for power cable insulation. These are designed for use with both silane and peroxide cross-linking technologies. Working with our customers' increasing focus on the flexibility of self-compounding, we have introduced new base resin and masterbatch solutions for overhead cables applications.

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.

The enhanced cleanliness specifications demanded by the wire and cable industry are met by stringent control of manufacturing processes and our investment in specialised QA equipment.

Our polymers technical expertise is located in a central European laboratory in Brussels with the availability of a full range of electrical testing equipment and facilities for sophisticated analysis. A well equipped full extrusion wire & cable line designed for thermoplastic and Monosil® extrusion is also available.

More details can be found at www.ineospolyolefins.com

Products that perform perfectly

INEOS Olefins & Polymers

The INEOS O&P Europe grade range for Wire & Cable

Material	Grade	MFR (g/10min) 190°C/2.16 Kg	Density (kg/m³)	Plant	Typical Applications
Power low voltage insulation					
LDPE	BPD2142	1	930	Köln	Power low voltage Insulation Unstabilised LDPE (Monosil ®, Sioplas ®)
LLDPE	BPD3042	4,1	930	Köln	Power low voltage Insulation Unstabilised LLDPE for standard LV applications of for overhead cable application (Monosil ®)
LLDPE	BPD3220	2,4	920	Köln	Power low voltage Insulation Unstabilised LLDPE for standard LV applications (Monosil ®)
LLDPE	BPD3052	4,1	930	Köln	Power low voltage Insulation Unstabilised high performance LLDPE for LV applications (Monosil ® and Sioplas ®)
LLDPE	BPD3642	3,0	920	Grangemouth	Power low voltage Insulation Unstabilized C6-LLDPE with enhance properties for crosslinked LV applications (Monosil ®, Sioplas ®)
LLDPE	BPD3669	3,3	926	Grangemouth	Power low voltage Insulation Unstabilized C6-LLDPE with enhance properties for crosslinked LV applications (Monosil ®, Sioplas ®)
LDPE	BPD2167	0,3	930	Köln	Power low voltage Insulation Unstabilised LDPE for overhead cables application (Monosil ®)
LDPE	BPD8128	0,27	923	Köln	Power low voltage cable insulation Stabilised LDPE for copper conductor (Monosil ®)
Power medium voltage insulation and applications requesting extra cleanliness					
LDPE	BPD2070	0,28	923	Köln	Power medium voltage insulation Unstabilised clean LDPE for silane crosslinking (Monosil ®)
LDPE	BPD2000	2,0	923	Köln	Power medium voltage insulation Unstabilised clean LDPE for peroxide crosslinking (direct peroxide injection)
Power medium and high voltage insulation and applications requesting extra cleanliness					
LDPE	BPD2000E	2,0	923	Köln	Power medium & high voltage insulation and applications requesting extra cleanliness Unstabilised very clean LDPE for peroxide crosslinking (direct peroxide injection)
Telecom Insulation					
LDPE	BP28D780	0,25	929	Köln	Telecom Insulation LDPE insulation with high extrusion performance
LDPE	BPD8063	1,5	923	Köln	Telecom Insulation LDPE for low loss RF cable insulation
Jacketing					
LLDPE	BPD3642	3,0	920	Grangemouth	Jacketing Unstabilized high performance C6-LLDPE
LLDPE	BPD3669	3,3	926	Grangemouth	Jacketing Unstabilized high performance C6-LLDPE
MDPE	BPD4020	0,2	938	Lillo	Jacketing Stabilised MDPE jacket
MDPE	BPD4035	0,2	949	Lillo	Jacketing MDPE black jacket compound
EBA	B24D230	0,35	924	Bamble	Jacketing EBA (8% BA), can accept high amounts of filler and could be used as base for polymer for Flame retardant compound
EBA	B28N230	8,0	924	Bamble	Jacketing EBA (15% BA), can accept high amounts of filler and could be used as base for polymer for Flame retardant compound

M=Monosil®, S= Sioplas ®
Densities mesures according to ISO 1183 method D, ISO 1872/1 conditioning unless otherwise stated
MFR measured according to ISO 1133, condition D unless otherwise stated

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