



INEOS O&P Europe, your partner in Thermoforming

INEOS O&P Europe: an historical and global leader in Thermoforming

INEOS Olefins & Polymers Europe offers a full range of high valued polyolefins solutions for selected market application such as pipe, packaging, extrusion, through a dedicated sales, marketing and technical team focused on these specific markets.

As a result of its leading technology, strong product development capability and willingness to create value and strong relationships with customers and end-users INEOS O&P Europe is committed to serve the current and future needs of the worldwide extrusion market.

INEOS O&P Europe: leading supplier of resins for Thermoforming application

Through mergers and acquisitions, INEOS O&P Europe has reinforced its presence in the extrusion market. It has always interacted with the different players of the supply chain from the producers, the converters, the packers to the end-users.

INEOS O&P Europe developed a range of products meeting the high quality demands of our customers' applications. The main properties of our resins are enhanced mechanical, optical properties and processability.

- **Homopolymers:** high temperature resistance plus a range of properties from standard, to ultra-high stiffness, to enhanced clarity, to powder solutions.
- **Random copolymers:** improved optical properties, gloss levels and impact improvement over homopolymer.
- **Impact copolymers:** excellent stiffness/impact balance for low temperature applications.



Offering much more than a product, Offering you solutions !

INEOS Olefins & Polymers

INEOS O&P Europe offers various solutions

A wide variety of innovative solutions is available:

- Co-extrusion allows the production of barrier packaging with prolonged shelf life. INEOS O&P Europe has developed a special grade having an excellent stabilisation package for high regrind level especially when coextruded with an oxygen barrier: 100-CS03.
- Corrugated sheet (Twin wall sheet) is used extensively in packaging as a premium replacement for traditional cardboard boxes. INEOS O&P Europe offers 2 grades:
 - 400-NA01 well recognised by the market as a leading product
 - and a new grade with higher melt strength, the 401-NA01.
- Very high stiffness homopolymer allows lighter-weight packages. The Eltex® P HCS580 is the resin that provides both cost and environmental benefits to our customers.
- High transparency packaging made of sheets produced with 200-NA02 are meeting the high level of requirements demanded by the luxury packaging.



INEOS O&P Europe's commercial product range

1. PE grade slate

HDPE	Density (kg/m ³)	MFR (190°C/2,16Kg) (g/10min)	MFR (190°C/21,6Kg) (g/10min)	Applications and key characteristics
HD5502S	954	0,2		Medium molecular weight copolymer grade, which has been designed with an improved density/stress cracking resistance relationship for use in a wide range of blow moulding and extrusion applications
HM5411	952		10	High molecular weight copolymer grade for medium, large blow moulding and extrusion applications where a combination of high environmental stress cracking resistance and good rigidity is required.
HD6007S	962	0,6		Medium molecular weight homopolymer grade for use in a wide range of blow moulding and extrusion applications, high rigidity
LL/LDPE				
LL6908AA	936	0,9		C6-LLDPE developed for highly demanding extrusion segments e.g. thick sheeting for geomembrane and geoliner applications

2. Polypropylene grade slate

PP Homopolymer	MFR (230°C, 2.16 kg) (g/10min)	Flexural Modulus (MPa)	Tensile Strength @ Yield (MPa)	Applications and key characteristics
100-GA01	0,9	1550	36	Sheets; good rigidity, high heat resistance
100-GA02	2	1450	35	Trays, containers; good rigidity, high heat resistance
150-GA02	2	1450	35	Trays, containers; good rigidity, high heat resistance
100-GA03	3	1450	35	Trays, containers; good rigidity, high heat resistance
150-GA03	3	1450	35	Trays, containers; good rigidity, high heat resistance
102-CA03	3	1800	39	Trays, containers; good rigidity, high heat resistance, good transparency
100-GA04	4	1400	34	Trays, containers; good rigidity, high heat resistance
HCS580	5	2200	40	Trays, containers; very high rigidity, very high heat resistance
101-CA06	6	1750	38,5	Trays, containers; good rigidity, high heat resistance, good transparency
100-GB06	6	1450	34	Trays, containers; good rigidity, high heat resistance

PP Random Copolymer	MFR (230°C, 2.16 kg) (g/10min)	Flexural Modulus (MPa)	Izod Impact Strength notched @ +23°C (kJ/m ²)	Applications and key characteristics
200-CA02	1,7	950	14	Sheets, trays, containers; heat resistance, excellent transparency
200-GA02	2	950	10	Sheets, trays, containers; heat resistance, good transparency
200-NA02	2	1000	10	Sheets, trays, containers; heat resistance, excellent transparency
203-NA02	1,9	1150	7	Sheets, trays, containers; heat resistance, excellent transparency

PP Impact Copolymer	MFR (230°C, 2.16 kg) (g/10min)	Flexural Modulus (MPa)	Izod Impact Strength notched @ -20°C (kJ/m ²)	Applications and key characteristics
350-HM00	0,3	1850	6	Sheets; good heat resistance, very high impact
RF110N6613	0,8	1300	5	Synthetic cardboards, sheets, trays, containers; good heat resistance, very high impact
401-NA01	1,2	1300	7,5	Synthetic cardboards, sheets, trays, containers; good heat resistance, very high impact
400-NA01	1,5	1300	7,5	Synthetic cardboards, sheets, trays, containers; good heat resistance, very high impact
400-GA03	2,5	1250	7	Sheets, trays, containers; good heat resistance, very high impact
400-GA05	5	1200	6,5	Sheets, trays, containers; good heat resistance, very high impact
401-NA06	6	1200	3	Sheets, trays, containers; good heat resistance, very high impact



Solutions to customers

INEOS O&P Europe is committed to have close and continuous collaboration with customers, converters and brand owners. Thanks to proven technical and marketing expertise, INEOS O&P Europe offers solutions to the market.

INEOS O&P Europe has extensive Research and Development facilities based in Brussels (Belgium) and is actively engaged in new development projects.

Contact:

For further details on any of the information contained in this folder, please contact your local INEOS O&P Europe Sales and Technical teams for advice.

Ineospofeu@ineos.com

We also invite you to visit our websites:

www.ineospolyolefins.com

www.ineos.com

INEOS Polyolefins
Rue de Ransbeek 310
B-1120 Brussels
Belgium

Tel. +32 2 264 3808

Fax +32 2 264 3818

Inquiries: ineospofeu@ineos.com

EXCLUSION OF LIABILITY

The information contained in this brochure, as at the date of publication, is accurate to the best knowledge and belief of INEOS Europe Ltd. and its affiliates («INEOS») and any further information or advice provided by INEOS relating to INEOS or third party materials is also given in good faith. INEOS makes no representations or warranties, express or implied, regarding the completeness, quality or accuracy of this or any other information and any decisions you make based on the information contained in this website or otherwise provided by INEOS, including as to the suitability or fitness of materials for a particular purpose, are your sole responsibility. The information contained in this website is subject to change, and your INEOS representative will be happy to help in providing you with the latest version of this information. Please otherwise note that we advise you regularly check the validity of the information you may have already downloaded from our website.

Except as required by mandatory law or as expressly provided in INEOS's standard terms and conditions of sale, INEOS accepts no liability whatsoever arising from the use of information supplied by this website or otherwise, or from the application, adaptation or processing of the products described herein, the use of other materials in lieu of INEOS materials or the use of INEOS materials in conjunction with such other materials.

Rigidex, Eltex, Eltex P, Rigidex P, INEOS and the breakthrough mark are all trademarks of the INEOS group, used with its permission, and are registered in a number of countries.