

Olefins & Polymers Europe

Your partner in

PP FILM

Faster, thinner, better with ELTEX® P



Our cast and blown polyolefins resins range

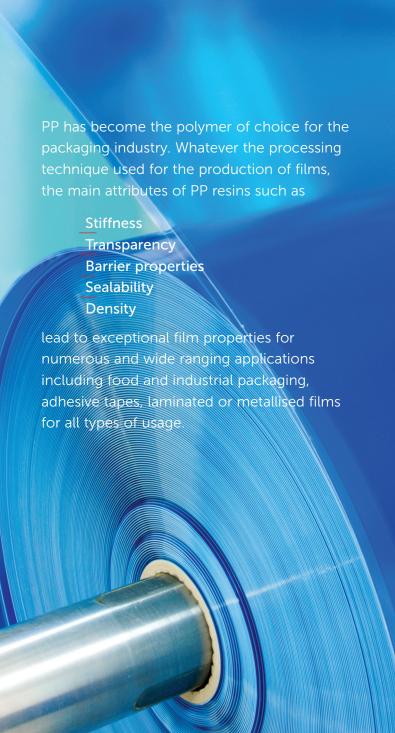
We also provide a flexible packaging market with a broad and specialized portfolio of LDPE, LLDPE and metallocene LLDPE (under the brand name ELTEX® PF) resins for all types of processing equipment and applications.

Finally, INEOS Olefins & Polymers Europe also offers selected polypropylene grades (homopolymer and random copolymer) in powder form in melt flow indexes ranging from 2 to 45g/10min under the brand name ELTEX® P.

Solutions to customers

INEOS Olefins &
Polymers Europe
is committed to having
close and continuous
collaboration with customers,
converters, machine producers
and brand owners. Thanks to our
proven technical and marketing
expertise, INEOS Olefins & Polymers
Europe offers both solutions as well as
products to our market.

INEOS Olefins & Polymers Europe has a dedicated team of technical experts based in a world-class laboratory located in Brussels (Belgium) and is actively engaged in new development projects. The team provides a highly experienced and knowledgeable resource for customers to test and develop new film structures in partnership with INEOS Olefins & Polymers Europe.



PP Film

We are the world-leading supplier of heat seal resins for the production of bi-axially oriented (BOPP) films.

With a presence of more than 30 years in the BOPP film market, INEOS Olefins & Polymers Europe has always interacted with the different players of the supply chain from the BOPP producers, the converters and machine producers, the packers/fillers through to the end-users.

Thanks to the diversity of its inherited polypropylene technologies (bulk, gas phase such as Innovene® and Unipol®), INEOS Olefins & Polymers Europe markets a broad and complementary portfolio of polypropylene resins designed to meet the demand placed upon BOPP films.

- Standard homopolymer intended for BOPP tenter and double bubble processes
- Homopolymer suitable for metallisation intended for BOPP tenter and double bubble process
- Modified homopolymer intended for BOPP tenter process

Homopolymer for BOPP films

Product name	MFR	MP	Flexural Modulus	Additives		
	g/10 min ISO 1133	°C ASTM D3417	MPa ISO 178	Slip	AB	Ca St.
100-GD02	2.0	162	1450	0	0	0
101-GF02	2.0	159	1400	0	0	0
100-GD03	3.0	162	1450	0	0	0
101-GB08	8.0	161	1450	0	0	•
102-GD08	8.0	161	1450	0	0	0

As the world-leading supplier of ELTEX® P heat seal resins, INEOS Olefins & Polymers Europe offers the most complete range of skin layer resins. We have five distinct resin types:

- High ethylene content random propylene copolymer (ELTEX® P KS400 series) with SIT 115 °C
- Propylene/ethylene/butene terpolymer (ELTEX® P KS300 and KV300 series) with SIT 105 °C
- High comonomer content propylene/α-olefin copolymer (ELTEX® P KS341, KS399) with SIT 90 °C
- Very high comonomer content propylene/ α -olefin copolymer (ELTEX® P KS689) with SIT 80 °C
- Propylene/α-olefin copolymer for metallised film with high barrier performance (ELTEX® P KS607)



ELTEX® P skin layer resins product slate

Product name		MFR SIT		MP	Additives	
		g/10 min ISO 1133	°C INEOS (1)	°C ASTM D3417	Slip AB Ca St.	
	ELTEX® P KS400	5.0	115	134	• • •	
	ELTEX® P KS407	5.0	115	134	000	
	ELTEX® P KS409	5.0	115	134	00•	
	ELTEX® P KS414	7.3	115	134	• • •	
	ELTEX® P KV409	7.0	115	134	00•	
	ELTEX® P KS300	5.0	105	126	• • •	
	ELTEX® P KS309	5.0	105	126	00•	
	ELTEX® P KV333	9.0	109	128	0 • 0	
	ELTEX® P KV349	9.0	90	125	00•	
	ELTEX® P KS350	5.0	105	131	• • •	
	ELTEX® P KS357	5.0	105	131	000	
	ELTEX® P KS359	5.0	105	131	00•	
	ELTEX® P KS384	5.0	105	131	0 • •	
	ELTEX® P KS351	7.3	105	131	• • •	
	ELTEX® P KS341	7.3	92	115	0 • 0	
	ELTEX® P KS399	5.0	90	131	00•	
	ELTEX® P KS689	5.0	80	130	00•	
	ELTEX® P KS607	5.0	121	145	000	

SIT Seal initiation temperature, MP Melting temperature

- for metallisation
- (1) Measurements carried out on coextruded BOPP films
 (20 µm) (untreated faces)
 Two heated flat teflonized jaws, dwell time = 1 sec, pressure = 3 bar

The tables give typical values measured on the products. These values should not be considered as specifications.

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PP resins for blown and cast film applications

Product name	MFR	Flexural Modulus	Product type	Additives	
	g/10 min ISO 1133	MPa ISO 178		Stip AB AS Nucleated	
100-GA02	2.0	1450	HPP	0000	
150-GA02	2.0	1450	HPP	0000	
100-GA03	3.0	1450	HPP	0000	
150-GA03	3.0	1450	HPP	0000	
101-GB08	8.0	1450	HPP	0000	
102-GD08	8.0	1450	HPP	0000	
100-GA09	9.0	1500	HPP	0000	
101-SA09	9.0	1450	HPP	• 0 0 0	
100-GA12	12.0	1400	HPP	0000	
200-GA02	2.0	950	RCP	0000	
200-NA02	2.0	1000	RCP	000•	
200-CA02	1.7	950	RCP	00••	
ELTEX® P KF309	1.0	600	TERP - SIT 105°C	0000	
ELTEX® P KS357	5.0	620	TERP - medical	0000	
ELTEX® P KS351	7.3	620	TERP - SIT 105 °C	• • 0 0	
ELTEX® P KV309	8.0	600	TERP - SIT 108 °C	0000	
ELTEX® P KV349	9.0	525	TERP - SIT 90 °C	0000	
ELTEX® P RF110	0.8	1300	ICP/retortable	0000	
400-GA03	2.5	1250	ICP	0000	
400-GA05	5.0	1200	ICP	0000	
401-NA06	6.0	1200	ICP	000•	

 HPP
 Homopolymer
 TERP
 Terpolymer

 RCP
 Random Copolymer
 ICP
 Impact Copolymer
 ■ for metallisation

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INEOS is one of the world's largest chemical companies. Founded in 1998, the company employs 15,000 people and has turnover of around 47 billion US Dollars.

INEOS Olefins & Polymers Europe is a leading producer of olefins and polyolefins.

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INEOS Olefins & Polymers Europe offers a full range of high value polyolefins solutions for selected market applications such as pressure pipes & fittings, sewage and drainage pipes and fittings, caps and closures, packaging, heat-seal and automotive, through dedicated sales and technical service teams focused on each market segment.

Building on our leading technology, strong product development capability and willingness to create value and strong relationships with customers and end-users, INEOS Olefins & Polymers Europe is committed to serve the current and future needs of the world polypropylene film market where we offer all our products for:

- Bi-axially oriented (BOPP) film applications with a special focus on our market heat seal resins marketed under the prestigious brand name ELTEX® P
- Cast polypropylene (CPP) film applications
- □ Blown polypropylene film applications

Please contact our technical team for advice via your local representative. For Technical Data Sheets, Safety Data Sheets and Declaration of Compliance, visit us at www.ineos.com. For any further information please contact us at IneosPofCSC@ineos.com