



INEOS

Olefins & Polymers Europe

Your partner in

 **Recycl-IN**

PP & PE

Sustainable solutions

|
INEOS

We make more out of
plastic waste by offering
a wide range of high value
products with recycled
content.

INEOS Olefins & Polymers Europe

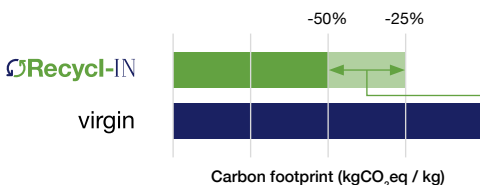


PE & PP Sustainable Solutions

INEOS O&P Europe offers a range of hybrid ready-made polyolefin compounds for rigid and flexible applications

Product benefits

- / Ready to use hybrid compounds based on Post-Consumer Recyclates (PCR)
- / Contains specially developed booster resin to outperform PCR properties
- / PCR sourced through collaboration and partnership with waste management companies and recyclers
- / Carbon footprint reduction between 25 and 50%



Product features

- / Quality consistency
- / Easy processing
- / Properties of use matching industry standards
- / Not for use in direct contact with food

// This isn't just a PR exercise. These are real targets that help to move our business to a more circular approach.

It won't eradicate the root causes of plastic waste and pollution but it will help change thinking about plastic waste, whilst making our business more resource efficient at the same time.

Peter Williams
Group Technology Director for INEOS

Polypropylene hybrids

Extrusion and blow moulding range

Product	Grade	MFR	Flexural Modulus	Izod impact	PCR content	Colour	Application
	Conditions units methods	230°C /2.16 kg (g/10 min) ISO 1133	23°C (MPa) ISO 178	Notched, 23°C (kJ/m²) ISO 180/1A	%		
HPP	rPP1002	2.5	1500	4.3	70	natural	Extrusion & blow-moulding, non food
HPP	rPP1003	4	1550	4	60	natural	BOPP (double bubble process), non-food

Injection moulding range

Product	Grade	MFR	Flexural Modulus	Izod impact	PCR content	Colour	Application
	Conditions units methods	230°C /2.16 kg (g/10 min) ISO 1133	23°C (MPa) ISO 178	Notched, 23°C (kJ/m²) ISO 180/1A	%		
HPP	rPP1013	13	1550	3.0	70	natural	Technical parts, non-food caps, closures and trays
HPP	rPP1025	25	1900	2.7	50	natural	
RCP	rPP2013	13	1150	4.2	70	natural	
RCP	rPP2028	26	1150	4.0	70	natural	
RCP	rPP2030	30	1150	4.0	70	natural	
ICP	rPP4015	15	1400	6	65	dark grey	

High Density Polyethylene Hybrids

Blow moulding

Product	Grade	MFR	Flexural Modulus	ESCR	PCR content	Colour	Application
	Conditions units methods	230°C /2.16 kg (g/10 min) ISO 1133	23°C (MPa) ISO 178	(1) (h) ISO 16770	%		
HDPE	rHD5402	0.2	1100	>45	>50	natural	Blow moulded bottles up to 10 liters
HDPE	rHD5603	0.3	1350	25	50	pearl	
HDPE	rHD5402GY1	0.2	1200	25	50	dark grey	
HDPE	rHD5402WT	0.2	1250	35	50	white	

(1) FNCT – 50°C, 5 Mpa, 2% Arkopal N100

Caps & Closures and technical injection applications

Product	Grade	MFR	Density	ESCR	PCR content	Colour	Application
	Conditions units methods	230°C /2.16 kg (g/10 min) ISO 1133	23°C ISO1183 (kg/m³)	(2) (h) INEOS method	%		
HDPE	rHD5620BK	1.8 ⁽¹⁾	956	16	50	black	Non-food caps & closures, injection moulding of technical parts and crates
HDPE	rHD5620GY1	1.8 ⁽¹⁾	956	16	50	dark grey	
HDPE	rHD5620GN1	1.8 ⁽¹⁾	956	16	50	dark green	

(1) Injectability similar to a monomodal HDPE-grade with a MFI between 5 and 7 g/10 min

(2) 40°C, 6 bar, 10% igepal

Flexible packaging

Product	Grade	MFR	Density	PCR content	Colour	Application
	Conditions units methods	190°C /2.16 kg (g/10 min) ISO 1133	23°C (kg/m³) ISO1183	%		
rLLDPE	rLL9110	1.6	914	60	natural	film lamination, heavy duty sacks, industrial film
rLLDPE	rLL9210	1.3	921	60	natural	Blown stretch film
rLLDPE	rLL9125	2.3	918	60	natural	Cast stretch film, masterbatches
rLLDPE	rLL9610	1.2	927	70	natural	Film lamination, rigid layer in coex, heavy duty bags, industrial films
rLDPE	rLD23E760	0.55	925	60	natural	shrink films, shrink hoods, heavy duty films
rHDPE	rHD5402	0.2	954	50	natural	stiffness enhancer in coex films

Artificial grass

Product	Grade	MFR	Density	PCR content	Colour	Application
	Conditions units methods	190°C /2.16 kg (g/10 min) ISO 1133	23°C (kg/m³) ISO1183	%		
rLLDPE	rLL9930	3	935	32	natural	artificial grass yarn, including textured yarn

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.



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





Please visit our website at **www.ineos.com**
or contact us at **ineospofcsc@ineos.com**

© INEOS Olefins & Polymers Europe, October 2022