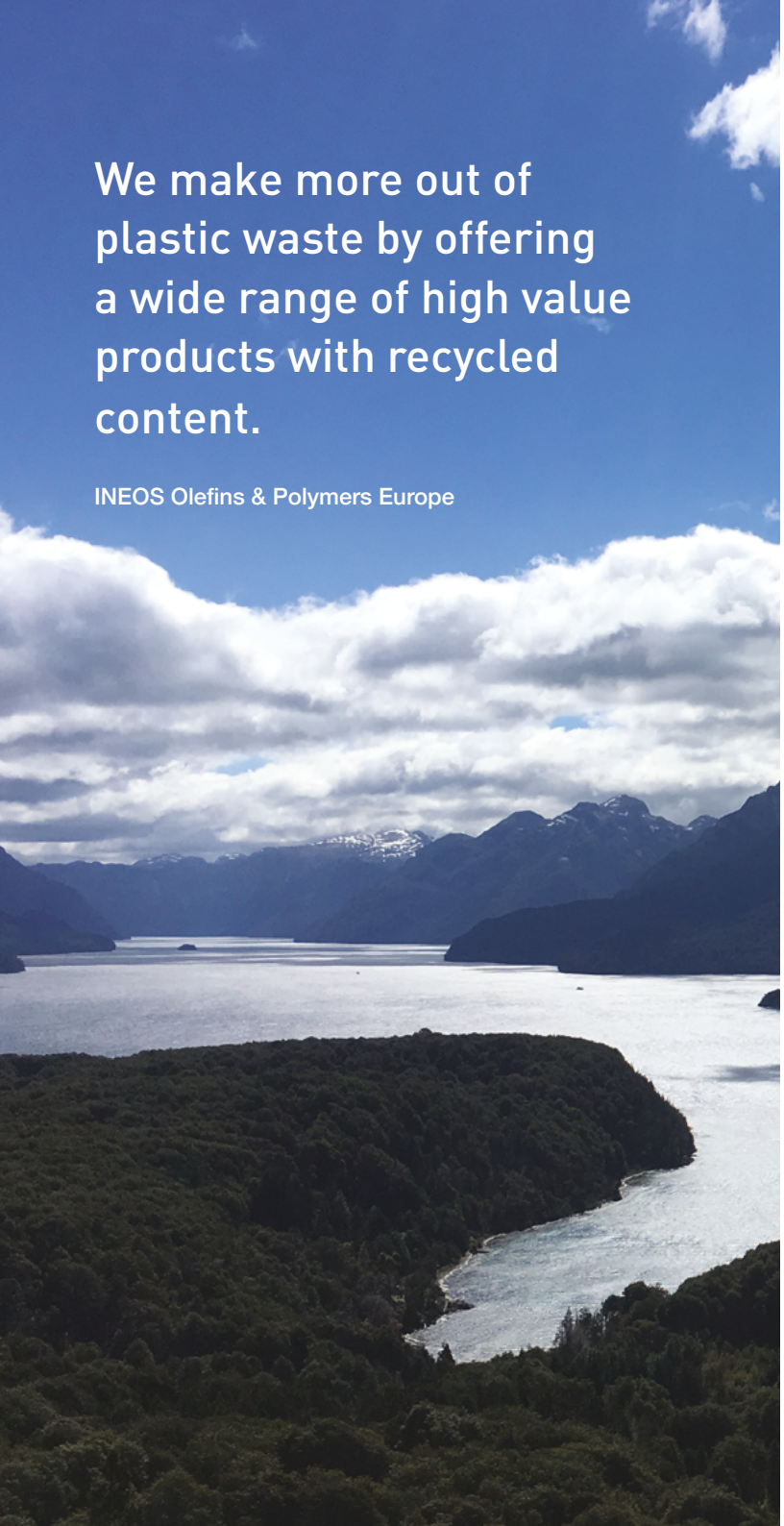

INEOS
Olefins & Polymers Europe
Your partner in
Recycl-IN
PP & PE
Sustainable solutions
INEOS

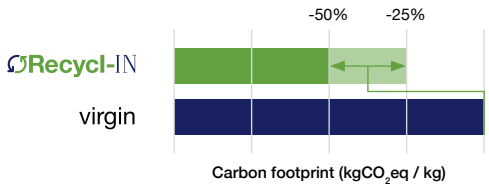

We make more out of plastic waste by offering a wide range of high value products with recycled content.
INEOS Olefins & Polymers Europe

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
- Some made with PCR covered by FDA-NOL

// 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 Conditions units methods	MFR 230°C /2.16 kg (g/10 min) ISO 1133	Flexural Modulus 23°C (MPa) ISO 178	Izod impact Notched, 23°C (kJ/m²) ISO 180/1A	PCR content %	Colour	FDA-NOL on PCR content	Application
rHPP	rPP1002	2.5	1500	4.3	70	natural	no	Extrusion & blow-moulding, non food
rHPP	rPP1003	4	1550	4	60	natural	yes	BOPP (double bubble process), non-food

Injection moulding range

Product	Grade Conditions units methods	MFR 230°C /2.16 kg (g/10 min) ISO 1133	Flexural Modulus 23°C (MPa) ISO 178	Izod impact Notched, 23°C (kJ/m²) ISO 180/1A	PCR content %	Colour	FDA-NOL on PCR content	Application
rHPP	rPP1013	13	1550	3.0	70	natural	no	Technical parts, non-food caps, closures and traysr
rHPP	rPP1025C	25	1400	2.8	70	natural	yes	
rRCP	rPP2013	13	1150	4.2	70	natural	no	
rRCP	rPP2028	32	1150	4.0	70	natural	no	
rRCP	rPP2030C	32	1150	4.0	70	natural	yes	
rICP	rPP4019	19	1400	7.9	50	natural	no	

High Density Polyethylene Hybrids

Blow moulding

Product	Grade Conditions units methods	MFR 190°C /2.16 kg (g/10 min) ISO 1133	Density 23°C (kg/m³) ISO 1183	Flexural Modulus 23°C (MPa) ISO 178	ESCR (1) (h) ISO 16770	PCR content %	Colour	FDA-NOL on PCR content	Application
rHDPE	rHD5402	0.2	954	1100	>45	>50	natural	no	Blow moulded bottles and containers up to 10 liters
rHDPE	rHD5603	0.3	956	1350	25	50	pearl	no	
rHDPE	rHD5402GY1	0.2	965	1200	25	50	dark grey	no	
rHDPE	rHD5402WT	0.2	970	1250	35	50	white	no	

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

Caps & Closures and technical injection applications

Product	Grade Conditions units methods	MFR 190°C /2.16 kg (g/10 min) ISO 1133	Density 23°C (kg/m³) ISO 1183	ESCR (2) (h) INEOS method	PCR content %	Colour	FDA-NOL on PCR content	Application
rHDPE	rHD5620BK	1.8[1]	956	16	50	black	no	Non-food caps & closures, injection moulding of technical parts and crates

(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

High Density Polyethylene Hybrids

Wire & Cables

Product	Grade Conditions units methods	MFR 190°C /2.16 kg (g/10 min) ISO 1133	Density 23°C (kg/m³) ISO 1183	ESCR (h) F0, 10% Igepal	PCR content %	Colour	FDA-NOL on PCR content	Application
rHDPE	rBPD5320GY1	0.6	935	>2000	50	grey	no	Jacketing

Rotomoulding

Product	Grade Conditions units methods	MFR 190°C /2.16 kg (g/10 min) ISO 1133	Density 23°C (kg/m³) ISO 1183	ESCR (h) INEOS method	PCR content %	Colour	FDA-NOL on PCR content	Application
rHDPE	rHD3850UA	5.0	938	-	45	natural	no	Any hollow body from small parts to large containers and tanks

Artificial grass

Product	Grade Conditions units methods	MFR 190°C /2.16 kg (g/10 min) ISO 1133	Density 23°C (kg/m³) ISO 1183	PCR content %	Colour	FDA-NOL on PCR content	Application
rLLDPE	rLL9930	3	935	32	natural	no	Artificial grass yarn, including textured yarn

Flexible packaging

Product	Grade Conditions units methods	MFR 190°C /2.16 kg (g/10 min) ISO 1133	Density 23°C (kg/m³) ISO 1183	PCR content %	Colour	FDA-NOL on PCR content	Application
rLLDPE	rLL9110	1.6	914	60	natural	no	Film lamination, heavy duty sacks, industrial film
rLLDPE	rLL9210	1.3	921	60	natural	no	Blown stretch film
rLLDPE	rLL9125	2.3	918	60	natural	no	Cast stretch film, masterbatches
rLLDPE	rLL9610	1.2	927	70	natural	no	Film lamination, rigid layer in coex, heavy duty bags, industrial films
rLDPE	rLD23E760	0.55	925	60	natural	no	Shrink films, shrink hoods, heavy duty films
rHDPE	rHD5402	0.2	954	50	natural	no	Stiffness enhancer in coex films
rPP	rPP1002	2.5(*)	-	70	natural	no	Sheets
rPP	rPP1003	4.0(*)	-	60	natural	yes	BOPP

(*) MFR 230°C, 2.16 kg

Extrusion coating

Product	Grade Conditions units methods	MFR 190°C /2.16 kg (g/10 min) ISO 1133	Density 23°C (kg/m³) ISO 1183	PCR content %	Colour	FDA-NOL on PCR content	Application
rLLDPE	rLD20L522	5	920	35	-	no	Commercial and flexible application in extrusion coating

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.

ECO EXCELLENCE
Our sustainable journey

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