
beologic
Sustainability can be challenging
we help you make it work.

About Beologic

History

Founded in 2000, Beologic began with high-quality Wood Plastic Composites. Over the years, we've expanded our expertise and product range to include recycled materials, biodegradable polymers and a wide range of natural fibers. Today, we operate with an annual capacity of 36,000 metric tons. Driven by our commitment to a circular economy, we are eager to boost our output in the coming years.

Why choose Beologic?

We lead by example. As a leading expert in thermoplastic compounds, Beologic sets the standard for sustainability worldwide. Our clients trust us as a reliable partner for reducing their carbon footprint and finding state-of-the-art material solutions. With over two decades of expertise, a unique and broad product portfolio and a data-driven approach, we adapt to your current and future needs. Sustainability is not a trend for us—it's about measurable actions and transparent results.

What solutions can we offer?

We develop sustainable compounds for injection moulding, rotational moulding and extrusion. Our portfolio includes:

- Recycled content
- Natural-filled compounds
- Bio-based materials
- Biodegradable polymers
- Smart solutions

A one-size-fits-all approach doesn't work in sustainability. That's why we ensure quality-approved, innovative materials for a wide range of applications, delivered worldwide and supported by flexible customer service. Our mission: balance material engineering, sustainability and performance to create future-proof products.

3 commodities evolved to more than 400 different polymer compositions

36,000 metric tons production

30 employees

3 hectare site in Belgium

Sales in more than 20 countries

11 tolling services

Our sustainability vision

At Beologic, we have been building a sustainable environment since the start in 2000. As a manufacturer of sustainable compounds we have always been engaged to participate in the conservation of natural resources and environmental protection.

We are actively in pursuit of climate action and creating responsible ways to consume and produce products. This means that we want to create a reduced waste generation that uses our natural resources efficiently. We focus on reducing greenhouse gas emissions with low carbon products and organization.

Sustainability is no trend word for us, it is all about the measurable actions we take.

- Efficient and fully electrified production process
- Monitoring of electrical consumption on production order level
- 100% green electricity
- Switch to electric car fleet
- Installation of on-site charging infrastructure
- No use of fossil fuel for heating
- Eco-friendly travelling
- Advanced waste management

Certifications

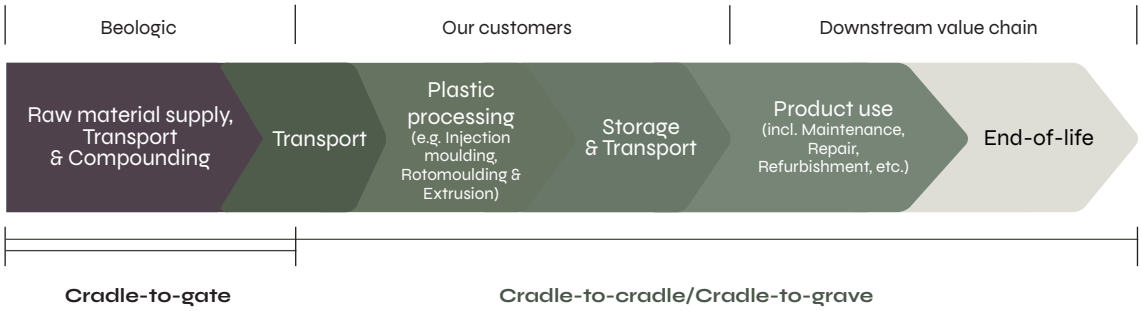
At Beologic, we believe that true sustainability must be transparent and verifiable. That's why we rely on independent, internationally recognized certification bodies to validate our claims. Our recycling process and use of recycled content are certified by RecyClass, confirming our contribution to a circular economy.

All our wood fibers are either PEFC or FSC® certified, ensuring they come from responsibly managed forests. And for our bio-based and biodegradable compounds, we collaborate with TÜV Austria, who rigorously assess and certify our materials. Through certification, we turn sustainable ambition into proven action.

Product carbon footprint

Our carbon footprint is our key sustainability metric. It indicates the impact of our company and products on climate change and is transparently communicated on every quotation, order confirmation, invoice and product label.

A carbon footprint can be calculated for an entity like a company or can be calculated for a specific product during its entire life cycle.



By using natural fibres or recycled polymers, our compounds reduce your carbon footprint.

Product carbon footprint (Cradle-to-gate, kgCO2eq/kg)	Virgin	Mechanically recycled
PP	2,36	0,70
Beobase 25 wood PP	1,75	0,55
HDPE	2,41	0,72
LDPE	2,40	0,51
Beobase 25 wood PE	1,83	0,40
PVC	2,20	0,20
Beobase 50 wood PVC	1,15	0,15
ABS	3,10	0,50
Beobase 15 wood ABS	2,65	0,44
PS	2,90	0,60
Beobase 25 wood PS	2,20	0,48

Our PCF's are calculated Cradle-to-gate (excl. Biogenic CO_2-removal) in accordance with PAS 2050 and the GHG product standard.
Where possible supplier specific data is used, otherwise figures are taken from reliable databases.
Biogenic CO_2-removal is not accounted for, as we can't guarantee this isn't released again later in the product life cycle.
For more info, please contact info@neutrologic.com

The figures in this table are generalized and approximative, so not intended for use/reference.

Our tolling services

Beologic not only has an extensive machine infrastructure, but also the experience of developing and manufacturing its own compounds.

This makes us your ideal outsourcing partner for toll processing. Send us your raw or semi-finished materials and we will process them to your specifications by one of the services listed below.

Conventional milling

Beologic pulverizes your pellets or granulates down to powder, as small as 200 microns.

Cryogenic milling

Cryogenic milling uses liquid nitrogen to freeze substances down to -180°C, so they become brittle and fit for milling.

Shredding

Our shredding service makes materials of any shape and size ready for processing.

Sieving

Particle size distribution is often an issue. Not for Beologic. Our screeners separate over- or undersized particles from the correct ones.

Recycling

We turn your industrial scrap or post-consumer waste into high-quality granules, helping you create new value from existing materials.

Optical sorting

We separate materials based on colour to ensure clean and consistent input streams for your processes.

Lot mixing

Beologic blends and homogenizes your materials according to your specifications.

High/low-shear mixing

We blend additives and polymers under controlled shear conditions to achieve optimal dispersion and performance.

Formulation engineering

We co-develop or fine-tune your material recipes to meet specific mechanical, thermal or environmental requirements.

Compounding

We turn your raw materials into ready-to-use compounds, tailored to your application and processing needs.

Packaging

Whatever we process for you, our packaging and repacking service delivers the product in the approriate packaging.

As a one-stop-supplier, we can combine several services into one project.

A logical product range

Bio-based

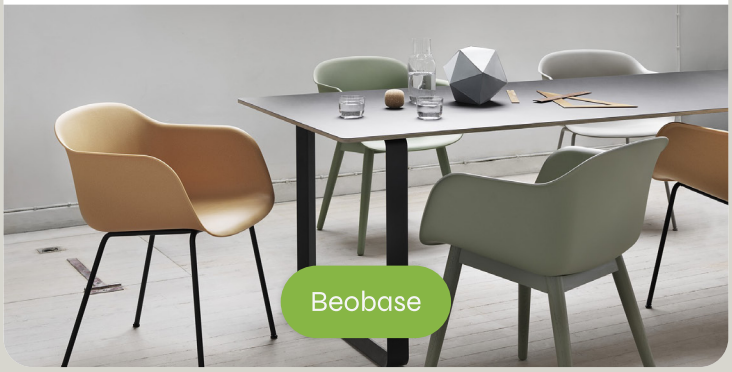
Durable

Biodegradable

Fossil-based

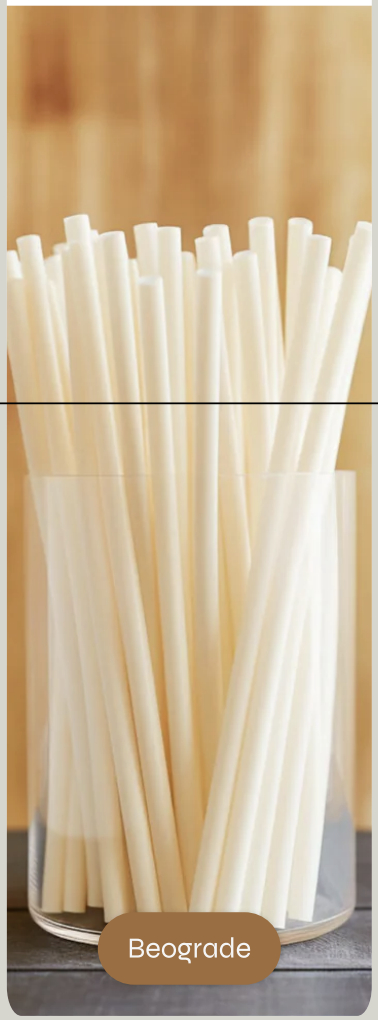
BIO-BASED

Bio-based through filling with wood or other natural fibres, or replacing the fossil-based polymer by a bio-based grade



BIODEGRADABLE

Fossil or bio-based but mainly a blend. Can be filled with wood or other fillers.



RECYCLED

No natural filler, but based on recycled materials

SMART

Reduced weight, eco-friendly additive, increased lifecycle

Polyethylene (PE)

Circular, bio-based and designed for every process

Our polyethylene portfolio offers a wide range of recycled compounds that transform discarded plastic products — such as fishing nets, artificial grass, caps and closures, household waste and textile by-products — into high-quality materials that give products a unique story.

These compounds are ideal for outdoor furniture, playground equipment, marine products, packaging and more.

For renewable alternatives, we provide bio-based solutions, either produced from bio-based polyethylene or enriched with natural fillers like wood, flax or cotton from recycled jeans, the options are truly endless.
These compounds are widely used in horticulture, household goods and toys, while our highly filled materials are perfect for extrusion of decking, cladding and fencing.

Our foaming solutions reduce material usage without compromising strength, making them an excellent choice for lightweight yet durable products such as kayaks and flower pots.

> **"From discarded plastics to high-quality compounds — giving every product a unique sustainable story."**

We have partnered with TotalEnergies for the distribution of advanced rotational moulding products. Through complete vertical integration TotalEnergies has full control of the upstream value chain, making sure we rely on a trustworthy and local supply of material.

TotalEnergies

PCR

In addition, we are jointly developing hybrid compounds based on post-consumer recycled (PCR) materials, with PCR content ranging from 30% to 60%.

This collaboration combines high performance with a competitive market position, enabling innovative and sustainable solutions for demanding applications.

Polyethylene (PE)

	Relative density	MFR (190°C/2,16 kg)	Tensile modulus	Flexural modulus	Charpy impact strength notched	Vicat softening point (A50)	HDT (B)	Bell ESCR (10% Igepal)	Recycled content	Carbon footprint *	Main properties	Applications
UNIT	g/cm³	g/10 min	MPa	MPa	kJ/m²	°C	°C	F50 in hours	%	kg CO_2 eq/kg	-	-
STANDARD	ISO 1183-1	ISO 1133-1	ISO 527-1	ISO 178	ISO 179-1	ISO 306	ISO 75-1	ASTM D 1693	-	PAS 2050		
Rotational moulding												
Beobase PE RTM186	0,940	3,5	670	440	55,1	-	-	-	-	1,280	4★Bio-based content	Toys, Marine, Containers, Tanks, Food applications
Beobase PE RTM201	0,950	4,5	880	570	20,2	-	-	-	-	1,280	4★Bio-based content	Furniture, Toys, Boats, Containers, Tanks, Food applications
Beobase 10 PE cotton RTM034 Blue Jeans	0,946	2,5	1030	675	12,0	-	-	-	-	2,151	Recycled texiles, Jeans look	Indoor products, Household, Gardening
Beobase 05 PE flax RTM030 Flax Tan UV	0,928	9,0	240	210	34,9	-	-	-	-	2,024	Visual flax fibre	Gardening, Furniture
Beobase 15 PE wood RTM179	0,955	4,5	1000	860	12,5	-	-	-	-	1,847	Visual wood fibre	Toys, Outdoor products, Gardening, Furniture
Beocycle PE RTM216 Ocean extra UV	0,950	2,5	530	630	16,4	-	-	-	50	1,163	Recycled content, Ocean waste	Furniture, Gardening, Toys, Marine, Outdoor, Structural parts
Beocycle PE RTM294 Ocean Teal UV	0,930	4,5	470	640	11,0	-	-	-	33	1,464	Recycled content, Ocean waste	Furniture, Gardening, Toys, Marine, Outdoor, Structural parts
Beocycle PE RTM321 Collect Natural UV	0,930	6,5	290	320	43,0	-	-	-	33	1,594	PCR content, Packaging waste, Easy colouring	Furniture, Gardening, Toys, Marine, Outdoor, Structural parts
Beocycle PE RTM242 Agri extra UV	0,938	2,0	500	570	14,4	-	-	-	50	1,503	Recycled content, Land waste	Tanks, Containers, Indoor products, Outdoor products
Beocycle PE RTM235 Art. Grass UV	0,938	4,5	340	420	81,7	-	-	-	50	1,117	Recycled content, Artificial grass, UV stabilized	Gardening, Traffic, Outdoor products
Beocycle PE RTM207 Art. Grass	0,920	2,0	280	335	87,5	-	-	-	>99	0,070	Recycled content, Artificial grass	Gardening, Traffic, Indoor products
Beocycle PE RTM330 Black	0,931	3,7	235	290	97,7	-	-	-	100	0,730	Recycled material, Cost effective	General purpose, Technical parts
Beocycle PE RTM236 Terrazzo	0,939	6,5	400	400	32,2	-	-	-	15	1,650	Recycled content, Stone look	Indoor products, Industrial, Household, Gardening
Beocycle PE RTM217 Ocean Foam	0,210	-	-	-	-	-	-	-	>98	1,155	Recycled content, Foam grade	Furniture, Foam, Boats, Traffic, Household
Beosmart PE RTM237 Foam	0,222	-	-	-	-	-	-	-	-	2,168	Foam grade	Furniture, Foam, Boats, Traffic, Household, Food packaging
Lumicene® M3583 UV	0,935	6,0	700	700	-	121	-	>250	-	On request	Easy processing, TÜV ECE 34 Fuel Tanks	AdBlue and Diesel fuel tanks
Lumicene® M4043 UV	0,940	4,0	800	-	-	121	84	100	-	On request	General purpose, TÜV ECE 34 Fuel Tanks	Fuel tanks
Lumicene® M3423 UV	0,935	2,7	720	-	-	118	73	>1000	-	On request	Outstanding ESCR, TÜV ECE 34 Fuel Tanks	Diesel fuel tanks, Chemical tanks
TP Seal® M4743 UV	0,947	4,0	1025	-	-	120	70	>1000	-	On request	Very high ESCR, Low creep, Low shrinkage, TÜV ECE 34 Fuel Tanks	Diesel fuel tanks, Underground tanks
TP Seal® M4833 UV	0,948	3,5	1140	-	-	-	66	300	-	On request	Very high stiffness, Very low creep, Low shrinkage	Diesel fuel tanks, Underground tanks
TP Seal® M5153 UV	0,951	5,1	1400	-	-	-	-	200	-	On request	Easy processing, Very high stiffness, Low shrinkage	Technical tanks and parts, Boats, Kayaks
TP Seal® M3670 UV	0,939	3,9	800	-	-	-	-	-	-	On request	Very good bond with PA and EVOH, EPA/CARB	Two layers gasoline fuel tanks with PA11

If you do not find the right compound we can develop a custom formulation for your application. Coloured in the mass compounds and other modifications are available on request. Other natural fibres are available on request.

	Relative density	MFR (190°C/2.16 kg)	Tensile modulus	Flexural modulus	Charpy impact (1eA) strength notched	Charpy impact (1eU) strength unnotched	Vicat (A120)	HDT (B)	Renewable content	Recycled content	Post Consumer recycled content (PCR)	Carbon footprint *	Main properties	Applications
UNIT	g/cm³	g/10 min	MPa	MPa	kJ/m²	kJ/m²	°C	°C	-	%	-	kg CO_2 eq/kg	-	-
STANDARD	ISO 1183-1	ISO 1133-1	ISO 527-1	ISO 178	ISO 179-1	ISO 179-1	ISO 306	ISO 75-1	-	-	-	PAS 2050		
Injection moulding														
Beobase 25 PE wood INJ022	1,030	4,7	2190	2100	3,5	19,5	125	111	★	-	-	1,214	Visual wood fibre, High stiffness	General Purpose, All markets
Beobase 25 PE wood INJ025	1,000	9,1	575	575	10,7	33,7	86	59	★★★★	-	-	1,018	Visual wood fibre, Flexible LDPE, Bio-based content	All markets, High level of bio-based material
Beobase 25 PE wood INJ026	1,030	5,7	2130	2055	3,1	10,5	124	98	★★★★	-	-	1,018	Visual wood fibre, High stiffness HDPE, Bio-based content	All markets, High level of bio-based material
Beobase PE INJ223	1,010	19,0	1380	1325	2,3	68,6	-	69	★★★★	-	-	1,187	Bio-based content, PP properties	All markets, High level of bio-based material
Beocycle PE INJ222 Ocean UV	0,950	2,0	550	625	15,0	-	120	56	-	>50	✓	1,135	Recycled content, Ocean waste, UV stabilised	General purpose, Industrial goods, Furniture, Non-food packaging
Beocycle PE INJ238 Agri	0,950	0,5	625	675	22,2	-	126	60	-	>99	✓	0,780	Recycled content, Agricultural waste	General purpose, Household, Non-food applications, Visual pieces
Extrusion														
Beobase 70 PE wood EXT047	1,000	0,5	3510	3920	2,5	3,4	125	-	★★★	-	-	0,796	Visual wood fibre, High Stiffness	Decking, Cladding, Fencing, Construction
Beobase 70 PE wood EXT131	1,000	0,5	2600	2920	2,7	4,2	121	-	★★★★	-	-	0,596	Visual wood fibre, Bio-based content	Decking, Cladding, Fencing, Construction
Beocycle PE EXT230 Ocean UV	0,950	0.8	925	765	24,0	-	54	-	-	>98	✓	0,155	Recycled content, UV stabilized	Outdoor, Foam, Marine, Filament
Beocycle PE EXT232 Agri UV	0,950	0.6	625	680	22,2	-	60	-	-	>98	✓	0,835	Recycled content, UV stabilized	Film, Outdoor, Foam, Marine, Mulch
Beocycle PE EXT233 Art. Grass UV	0.920	2.2	280	335	87,5	-	45	-	-	>98	-	0,102	Recycled content, UV stabilized	Outdoor, Pipes, Cables, Filament
Other														
Beobase 50 PE wood BLM027	1,120	-	3510	3160	3,9	7,2	-	-	★★	-	-	1,176	Visual wood fibre, High stiffness	Blow moulding, Used as masterbatch or parts with low draw ratios
Beocycle PE BLM331 Clear White	0,947	0,5	1130	1025	34,7	-	127	73	-	100	✓	0,508	Recycled content, Easy to colour	Blow moulding

beobase beocycle beosmart TotalEnergies

Want to test your material?

ANALYSE PLASTICS

Polypropylene (PP)

Natural-filled, recycled and highly versatile

Our polypropylene portfolio offers natural-filled, recycled and specialty compounds for a wide range of applications. Our broad injection moulding range includes compounds with natural fillers such as wood fibre, rice husk, recycled cotton from jeans and textiles, cork, bamboo, cellulose and flax — each bringing a unique look and feel to the final product.

These compounds are widely used in industrial and consumer goods, non-food packaging, furniture and horticultural products. Our highly filled compounds are ideal for extrusion of technical profiles, fencing, decking and co-extrusion layers.

> **"Our polypropylene portfolio transforms natural fillers and recycled content into high-quality compounds that combine unique aesthetics with sustainable performance."**

We also offer a complete PCR polypropylene range for injection moulding, from dark and light grey to clear white and even fully transparent — all made from 100% post-consumer recycled content. For brands looking for a compelling sustainability story, we provide PP compounds based on recycled fishing nets, available for both injection moulding and extrusion.

TotalEnergies

Our rotomoulding PP compounds in collaboration with TotalEnergies deliver easy processing and exceptional impact resistance at room temperature, making them ideal for under ground tanks, technical parts, hot water tanks and under-the-hood automotive applications. A transparent grade is also available for design-oriented products such as lamp shades and covers.

Polypropylene (PP)

	Relative density	MFR (230°C/2.16 kg)	Tensile modulus	Flexural modulus	Charpy impact (1eA) strength notched	Charpy impact (1eU) strength unnotched	Vicat (B120) - (A50)	HDT (B)	Renewable content	Recycled content	Carbon footprint *	Main properties	Applications
UNIT	g/cm³	g/10 min	MPa	MPa	kJ/m²	kJ/m²	°C	°C	-	%	kg CO_2 eq/kg	-	-
STANDARD	ISO 1183-1	ISO 1133-1	ISO 527-1	ISO 178	ISO 179-1	ISO 179-1	ISO 306	ISO 75-1	-	-	PAS 2050		
Injection moulding													
Beobase 25 PP wood INJ074	1,00	21,5	2950	2575	2,9	14,3	111	145	★	-	1,376	Visual wood fibre, High stiffness	General purpose, consumer goods, Furniture, Household. Packaging
Beobase 25 rPP wood INJ122	0,98	26,5	2590	2515	2,3	13,0	108	122	★	>70	0,602	Visual wood fibre, High stiffness, Recycled content	General purpose, Industrial goods, Furniture, Household, Packaging
Beobase 25 PP rice husk INJ097	0,99	27.0	2360	2300	2,4	15,2	104	142	★	-	1,376	Visual natural fibre, High stiffness	General purpose, Furniture, Household, Consumer goods
Beobase 10 PP cotton INJ038 Blue Jeans	0,96	15,0	2040	1785	4,5	38,0	95	116	-	-	1,830	Visual textile fibre, Good impact-stiffness balance	Industrial and consumer goods, Furniture,
Beobase 25 PP cork INJ118	0,96	4,0	1200	1230	2,8	14,8	84	90	★	-	1,376	Visual natural fibre, Rough surface finish	General purpose, Furniture, Household, Consumer goods
Beobase 25 PP bamboo INJ092	0,99	25,5	3350	3385	4,5	15,4	105	144	★	-	1,376	Visual natural fibre, High stiffness and good impact	General purpose, Industrial goods, Furniture, Household, Packaging
Beobase 25 PP cellulose INJ151	1,01	7,0	2800	2665	3,7	36,8	115	140	★	-	1,394	Non visual natural fibre, Good impact-stiffness balance	General purpose, Industrial goods, Furniture, Household, Packaging
Beobase 25 PP flax shives INJ120	0,97	16,5	2640	2690	2,5	11,3	108	142	★	-	1,376	Visual natural fibre, High stiffness	General purpose, Industrial goods, Furniture, Household, Packaging
Beobase 25 PP wood INJ132 GF	1,00	20,5	3700	3315	4,5	23,5	113	146	-	-	1,735	Visual natural fibre, High stiffness and good impact	Industrial and consumer goods, Furniture, Automotive
Beocycle PP INJ769 Ocean	0,92	3,5	1240	1420	4,2	-	87	80	-	>99	0,142	Recycled content, Ocean waste	General purpose, Household, Non-food applications, Visual pieces
Beocycle PP INJ770 UV	0,90	33,0	1040	1285	3,7	97,7	85	81	-	>99	0,746	100% PCR, Semi-transparent	General purpose, Industrial goods, Furniture, Household, Outdoor, Packaging
Beocycle PP INJ786 Grey	0,92	22,0	1290	1265	5,2	36,1	83	86	-	100	0,508	100% PCR, Cost effective	General purpose, Consumer goods, Furniture, Household, Packaging
Beocycle PP INJ787 Light Grey	0,91	12,5	1160	1265	7,5	59,4	80	86	-	100	0,508	100% PCR, Easy colourable	General purpose, Consumer goods, Furniture, Household., Packaging
Beocycle PP INJ788 Clear White	0,90	18,0	1100	1250	5,7	64,4	80	84	-	100	0,508	100% PCR, Easy colourable, White appearance	General purpose, Consumer goods, Furniture, Household., Packaging
Beocycle PP INJ789 Grey	0,91	32,5	1300	1325	6,6	49,1	74	89	-	100	0,508	100% PCR, Cost effective	General purpose, Consumer goods, Furniture, Household, Packaging
Rotational moulding													
Beocycle PP RTM794 Natural	0,90	8,8	880	1150	18,1	-	135	77	-	40	1,646	Easy processing, PCR Content, Easy colourable	Technical Parts, Tanks
Beocycle PP RTM795 Natural	0,90	9,0	930	1210	14,8	-	136	81	-	40	1,646	Easy processing, PCR Content, Easy colourable	Technical Parts, Tanks
TP Seal® PP 10T3	-	10	1850	-	-	-	(A50) 124	92	-	-	On request	Easy processing, (Semi-) Transparent	Lamp Shades and Covers
TP Seal® PP 15C3	-	15	1100	850	-	-	(A50) 114	64	-	-	On request	Easy processing, High impact at room temperature	Underground tanks, Technical parts, Hot water
TP Seal® PP 20C3	-	20	1100	-	-	-	(A50) 114	71	-	-	On request	Easy processing, High impact at room temperature	Tanks, Technical parts, Hot water
Extrusion													
Beobase 40 PP wood EXT072	1,00	11,0	3130	2992	2,4	10,3	-	-	★★	-	1,221	Visual wood fibre, High impact	Technical profiles, Gardening, Fencing, Indoor, Outdoor
Beocycle PP EXT790 Ocean	0,92	3,3	1240	1422	4,2	NA		86,5		>99	0,142	Recycled content, Ocean waste, Performance re-upgraded	General purpose, Technical profiles

beobase beocycle beosmart TotalEnergies

Polyvinylchloride (PVC)

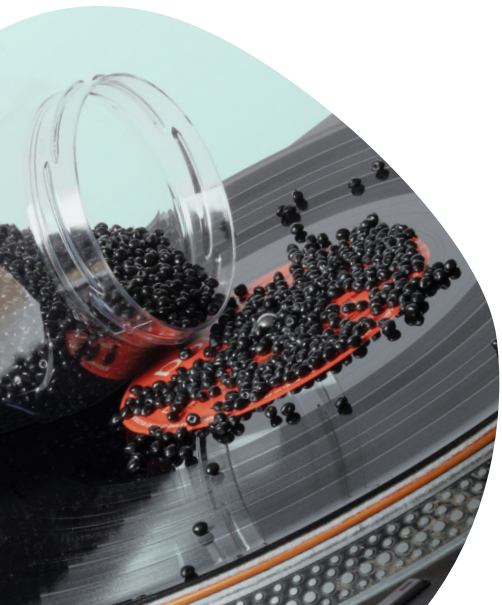
Natural-filled innovation and circular vinyl solutions

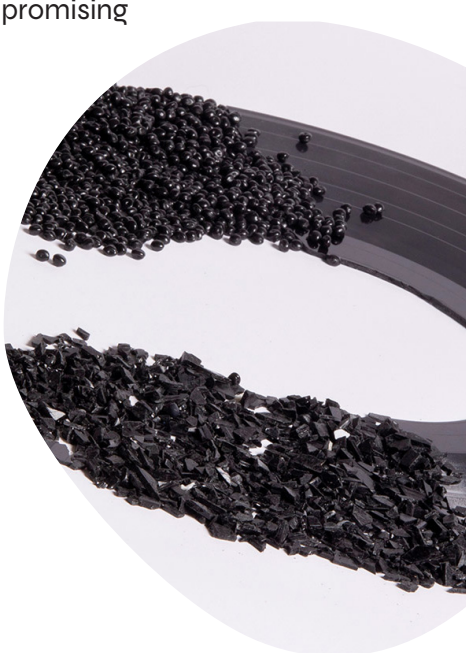
With more than 20 years of expertise in the field of wood-PVC compounds, our PVC portfolio offers 50% natural-filled compounds for extrusion and co-extrusion of decking, cladding, fencing, and indoor or outdoor construction applications, as well as piping. For demanding environments, we also provide non-filled compounds with high UV stability or high-temperature resistance.

> **"From wood-PVC compounds for construction to 100% recycled record compounds, our PVC portfolio proves that circular solutions can match — and even outperform — virgin materials."**

Our Rebound vinyl pressing compounds pioneer a closed-loop solution for the vinyl music industry. By collecting post-consumer vinyl records from second-hand stores across Belgium and recycling them in-house, we have created a 100% PCR compound that matches the processing ease and sound quality of virgin material.

In fact, in a blind test with 1,000 participants, 70% preferred the sound of the recycled record. By combining these PCR materials with industrial waste from pressing plants, we are working toward a fully circular vinyl music industry — without compromising performance or sound experience.





Polyvinylchloride (PVC)

	Relative density	Tensile modulus	Tensile strength	Flexural modulus	Charpy impact (1eA) strength notched	Charpy impact (1eU) strength unnotched	HDT (B)	Natural fibre content	Renewable content	Recycled content	Carbon footprint *	Main properties	Applications
UNIT	g/cm³	MPa	MPa	MPa	kJ/m²	kJ/m²	°C	%	-	%	kg CO_2 eq/kgeq/kg	-	-
STANDARD	ISO 1183-1	ISO 527-1	ISO 527-1	ISO 178	ISO 179-1	ISO 179-1	ISO 75-1	-	-	-	PAS 2050		
Extrusion & Co-extrusion													
Beobase 50 PVC wood EXT548 Hydrostatic	1,55	5690	45,0	5769	1,9	9,7	80,7	✓25	★	-	1,160	Visual wood fibre, Limited water absorption	Decking, Cladding, Fencing, Construction, Indoor, Outdoor, Pipes
Beobase 50 PVC wood EXT275	1,35	5490	34,4	5544	1,8	4,8	80,4	✓50	★★	-	1,140	Visual wood fibre, High stiffness	Decking, Cladding, Fencing, Construction, Indoor, Outdoor
Beobase 50 rPVC wood EXT499	1,35	4630	21,7	4434	2,2	4,0	82,2	✓50	★★	>50	0,463	Visual wood fibre, Recycled content	Decking, Cladding, Fencing, Construction, Indoor, Outdoor
Beobase 50 PVC rice husk EXT396	1,50	4300	26,7	4496	1,9	7,4	79,9	✓50	★★	-	1,157	Visual fibre, White aspect	Decking, Cladding, Fencing, Construction, Indoor, Outdoor
Beobase 50 PVC wood COEX281	1,30	4010	19,4	3932	1,6	3,6	80,7	✓50	★★	-	1,190	Visual wood fibre, More stretch for thin layers	Technical profiles, Window profiles, Co-extrusion, Outdoor
Beosmart PVC EXT419 UV	1,45	3170	50,7	3098	5,5	-	74,6	-	-	-	2,230	UV stabilized	Technical profiles, Window profiles, Fencing, Outdoor
Beosmart PVC EXT420 UV HT	1,52	3140	51,6	2983	3,4	39,9	82,7	-	-	-	2,230	UV stabilized, High temperature resistance	Technical profiles, Window profiles, Fencing, Outdoor
Record pressing													
Beocycle PVC Rebound PRS426 black PIR	1,35	-	-	-	-	-	-	-	-	33	1,450	Recycled vinyl records & Cut-off waste	Record pressing
Beocycle PVC Rebound PRS427 black PIR	1,35	-	-	-	-	-	-	-	-	50	1,083	Recycled vinyl records & Cut-off waste	Record pressing
Beocycle PVC Rebound PRS428 black PIR	1,35	-	-	-	-	-	-	-	-	66	0,738	Recycled vinyl records & Cut-off waste	Record pressing
Beocycle PVC Rebound PRS429 black PIR	1,35	-	-	-	-	-	-	-	-	100	0,005	Recycled vinyl records & Cut-off waste	Record pressing
Beocycle PVC Rebound PRS430 black PCR	1,35	-	-	-	-	-	-	-	-	33	1,458	Recycled vinyl records & Cut-off waste	Record pressing
Beocycle PVC Rebound PRS431 black PCR	1,35	-	-	-	-	-	-	-	-	50	1,095	Recycled vinyl records & Cut-off waste	Record pressing
Beocycle PVC Rebound PRS432 black PCR	1,35	-	-	-	-	-	-	-	-	66	0,754	Recycled vinyl records & Cut-off waste	Record pressing
Beocycle PVC Rebound PRS433 black PCR	1,35	-	-	-	-	-	-	-	-	100	0,019	Recycled vinyl records	Record pressing
Beocycle PVC Rebound PRS434 black MIX	1,35	-	-	-	-	-	-	-	-	100	0,016	Recycled vinyl records & Cut-off waste	Record pressing

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Flexible compounds

Low-carbon, natural-filled and high-performance

Our flexible portfolio includes TPE, TPV, TPU and EVA-based compounds, designed for applications where comfort, durability and sustainability meet. Over a decade of innovative development of wine corks with our partner Vinventions, has led to a closed-loop recycling scheme of discarded wine corks.

Collected across France and Italy, sorted by non-profit organizations funding cancer research and recycled in our facilities, the synthetic wine corks are transformed into circular flexible products such as wine buckets, road infrastructure components and waste or collection bins.

To further strengthen our expertise, we have partnered with Teknor Apex, a global leader with over a century of experience in thermoplastics. With local production of Monprene® TPE in Germany and Sarlink® TPV in Belgium, Teknor Apex is the ideal partner for high-performance specialty compounds. Their R6-series, featuring >60% PCR content, can reduce the carbon footprint of flexible solutions by up to 36%.

Together, we are extending our partnership to develop specialty compounds with natural fillers, combining sustainability with uncompromised performance and unique aesthetic properties for applications such as watch straps, soft-touch handles, ski pole grips and footwear.

Flexible compounds

	Relative density	MFR (190°C/2,16 kg)	MFR (200°C/5 kg)	Tensile modulus	Tensile strength	Hardness Shore A	Recycled content	Carbon footprint *	Main properties	Applications
UNIT	g/cm³	g/10 min	g/10 min	MPa	MPa	-	%	kg CO_2 eq/kg	-	-
STANDARD	ISO 1183-1	ISO 1133-1	ISO 1133-1	ISO 527-1	ISO 527-1	ISO 868	-	PAS 2050		
Injection moulding										
Beobase 10 TPE wood INJ567	0,92	4,7	-	27,8	2,9	73	-	2,304	Visual wood fibre, Impact resistant, Flexible	Household, Furniture, Visual and technical parts, Consumer goods
Beobase 10 TPE cork INJ568	0,91	9,1	-	22,1	2,8	72	-	2,304	Visual cork fibre, Impact resistant, Flexible, Rough touch & feel	Household, Furniture, Visual and technical parts, Consumer goods
Beobase 10 TPE cotton INJ569	0,91	2,8	-	34,2	3,2	75	-	2,311	Visual jeans look, Impact resistant, Flexible	Household, Furniture, Visual and technical parts, Consumer goods
Beobase 15 TPU wood INJ028	1,00	0,7	-	62,8	8,0	86	-	4,736	Visual wood fibre, Impact resistant, Flexible	Household, Furniture, Visual and technical parts, Consumer goods
Beocycle TPE INJ546	0,93	5,0	-	104	8,3	95	100	0,435	100% Recycled, Semi-flexible	Non-food applications, Furniture, Household, Automotive
Beocycle TPE INJ560	0,90	2,6	-	13,7	2,2	72	>35	1,829	Recycled content, Semi-flexible	Non-food applications, Furniture, Household, Flooring
Rotational moulding										
Beocycle TPE RTM509	0,93	5,0	-	104	8,3	95	>99	0,435	High recycled content, Semi-flexible	Semi-flexible rotomoulding applications, Double layer applications
Beocycle TPE RTM239 Ocean	0,94	5,0	-	187	9,1	95	>98	0,484	High recycled content, Semi-flexible, Black terrazzo look	Semi-flexible rotomoulding applications, Double layer applications
Beocycle TPE RTM240 Beige	0,93	4,8	-	107	7,9	97	>98	0,478	High recycled content, Semi-flexible, Beige terrazzo look	Semi-flexible rotomoulding applications, Double layer applications
Beosmart EVA RTM541 flexible	0,92	38,0	-	-	-	65	-	3,126	Flexible, Good for mould cleaning	Furniture, Toys, Marine, Industrial, Consumer goods
Extrusion										
Beobase 25 EVA wood EXT025	1,00	1,0	-	207	7,5	94	-	1,719	Visual wood fibre, Extreme flexibility, Shore A 94	Technical profiles, Window profiles, Sealing, Co-extrusion, Cables
Powered by Teknor Apex										
Monprene CP-101XX NAT	0,89	-	1-10	1.0-5.0	6.5-17.0	40-90	-	2-3	High performance, Excellent elasticity, Colourable to bright colours, Unfilled - No UV, Excellent CS also at 70°C	Extrusion & Injection moulding
Monprene RG-10160 NAT	0,89	-	1-10	1.0-5.0	6.5-17.0	40-90	-	2-3	High performance, Excellent elasticity, Colourable to bright colours, Unfilled - No UV, Excellent CS also at 70°C, EU & FDA food (non-fatty)	Extrusion & Injection moulding
Monprene CP-182XX NAT	0,89	>30,0	-	1.0-4.0	>6	40-90	-	2-2.3	High flow, UV, Translucent, Colourable to bright colours, Cost effective	Injection moulding
Monprene RG-182XX NAT	0,89	>30,0	-	1.0-4.0	>6	40-90	-	2-2.3	High flow, UV, Translucent, Colourable to bright colours, Cost effective, EU & FDA food (non-fatty)	Injection moulding
Monprene R6 CP-101XX NAT	0,89	-	>20	1.0-5.0	6.5-17.0	40-90	>60	1-2	60+% post-consumer recycled content, High performance, Excellent elasticity, Translucent, High flow	Injection moulding

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Biodegradable compounds

Compostable, bio-based and application-driven

Our biodegradable compounds combine fossil-based and bio-based biodegradable polymers to deliver durability without leaving microplastics in nature. Our standard range focuses on industrial compostable PLA-based compounds, used in both common and innovative applications — from straws, trays and cups to substrates for automated seed planting equipment, drone targets for defense testing and drainage products.

Beyond biodegradability, these compounds also replace oil-based plastics with bio-based alternatives. We offer a 100% bio-based solution for extrusion of packaging films and a highly lignin-filled material, which is used for home compostable waste bags. These home compostable applications are offered via tailor-made solutions, as they require careful balancing of material properties, processing windows and degradation requirements to meet specific application needs.

We also offer powder solutions for rotational moulding, delivering excellent sintering properties. These powders are versatile and can even serve as abrasives in soaps and cosmetics, providing a sustainable alternative in response to the EU's recent anti-microplastic regulation.

Additive manufacturing enables clever designs and innovative ideas to come to life. This is why we offer biodegradable and home compostable compounds specifically developed for 3D-printing. These grades are based on PLA and other compostable biopolymers, often enriched with natural fibres such as wood. They combine printability, sustainability and a visually distinctive finish for applications such as robotic covers, toys and home 3D-printing filament.

Biodegradable compounds

	Relative density	MFR (190°C/2,16 kg)	Tensile modulus	Flexural modulus	Charpy impact (1eA) strength notched	Vicat (A120)	HDT (B)	Renewable content	Carbon footprint *	Main properties	Applications
UNIT	g/cm³	g/10 min	MPa	MPa	kJ/m²	°C	°C	-	kg CO_2 eq/kg	-	-
STANDARD	ISO 1183-1	ISO 1133-1	ISO 527-1	ISO 178	ISO 179-1	ISO 306	ISO 75-1	-	PAS 2050		
Injection moulding											
Beograde INJ036 T	1,24	30,0	3770	4130	3,6	59,7	60,0	★★★★	2,120	Biodegradable, Transparent, Bio-based content	General purpose, Transparent pieces
Beograde INJ038	1,23	17,0	1610	1350	12,0	62,9	57,7	★★★	2,760	Biodegradable, High impact	General purpose
Beograde INJ039	1,37	19,0	3390	3040	5,3	61,0	57,4	★★★	2,015	Biodegradable, High stiffness	General purpose
Beograde 10 wood INJ027	1,24	16,5	2580	2300	5,0	64,3	57,0	★★★	2,381	Visual wood fibre, Biodegradable	General purpose, Visual and technical pieces
Extrusion & Co-extrusion											
Beograde EXT037 T	1,25	4,0	3500	3600	3,5	-	57,0	★★★★	2,120	Biodegradable, Transparent, Bio-based content	General purpose, Transparent pieces
Beograde EXT041	1,25	3,5	3250	2790	6,6	-	57,5	★★★	2,195	Biodegradable, Medium stiffness	Technical profiles, Co-extrusion, Outdoor, Pipes, Food applications
Beograde EXT042	1,30	3,5	2090	1800	14,2	-	57,2	★★	2,451	Biodegradable, Medium impact	Technical profiles, Co-extrusion, Indoor, Outdoor, Foam, Food applications
Beograde EXT052	1,25	7,5	1010	1560	71,8	-	52,2	★★	2,533	Biodegradable, Medium flexibility, High impact	Technical profiles, Co-extrusion, Outdoor, Foam, Cables, Food applications
Beograde EXT058	1,30	17,0	2870	2580	5,5	-	53,3	★★★	2,208	Biodegradable, High flow	Technical profiles, Co-extrusion, Indoor, Food applications
Beograde 10 wood EXT028	1,25	3,5	3640	3475	5,1	-	57,0	★★★	2,177	Biodegradable, Visual wood fibre	Technical profiles, Co-extrusion, Outdoor, Food applications
Rotational moulding											
Beograde RTM050	1,18	6,5	1200	1000	84,4	-	-	★	3,203	Biodegradable, High impact	Gardening, Marine, Containers, Consumer goods, Food applications
Beograde RTM064 T	1,23	4,0	3500	3600	3,5	-	57,0	★★★★	2,376	Biodegradable, Transparent, Bio-based content	General purpose, Transparent pieces
Beograde RTM065 T	1,23	10,0	3550	3810	2,7	60	54,0	★★★★	2,713	Biodegradable, Transparent, Bio-based content	General purpose, Transparent pieces
Other											
Beograde THF040	1,30	2,5	3520	3095	9,9	-	57,8	★★★	2,015	Biodegradable, High stiffness	Film, Thermoforming, Indoor, Outdoor, Food applications
Beograde 05 wood THF024	1,25	3,5	1440	1210	31,2	-	56,6	★★	2,724	Biodegradable, Visual wood fibre	Film, Thermoforming, Indoor, Outdoor
Beograde FLM044 O	1,30	3,5	1260	960	78,3	-	57,0	★	2,671	Biodegradable, Opaque	Film, Indoor, Outdoor, Mulch, Food applications
Beograde FLM046 T	1,20	5,0	1200	1000	84,4	-	58,1	★	2,947	Biodegradable, Transparent	Film, Indoor, Outdoor, Mulch, Food applications
Beograde 05 wood BLM023	1,30	3,5	1140	1080	32,0	-	58,5	★★	2,752	Biodegradable, Visual wood fibre	Injection and extrusion blow moulding, Toys
Beograde BLM035 O	1,20	4,5	1340	1070	96,4	-	58,5	★★	2,877	Biodegradable, Opaque	Injection and extrusion blow moulding, Toys, Food applications
Beograde BLM043 O	1,30	4,5	2660	2220	8,9	-	58,5	★★★	2,325	Biodegradable, Opaque	Injection and extrusion blow moulding, Toys, Food applications
Beograde 70 lignin MB001	1,20	1,0	-	-	-	-	-	★★★	1,230	Biodegradable, High filled, Visual fibre	Masterbatch for film applications, Food contact approved

beograde

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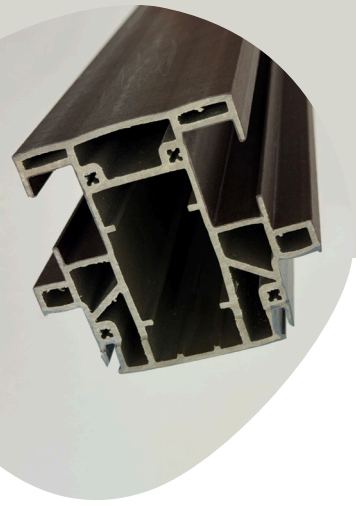
Engineering compounds

Recycled, natural-filled and high-performance

Our engineering range includes PS, ABS, ASA, and PA-based compounds, designed for demanding applications where strength, aesthetics and sustainability matter. We offer post-consumer recycled PS and ABS from Waste of Electrical and Electronic Equipment (WEEE), available in a range of colours from white to black, ideal for housings, casings, sockets, lamp shades and covers. In addition, our PA compounds from recycled fishing nets provide high-performance solutions with a strong sustainability story.

> **"Our engineering compounds turn recycled electronics and fishing nets into high-performance materials — combining strength, design and sustainability."**

Combining these polymers with natural fillers creates unique visual effects for non-food packaging, household products and consumer goods, adding both functionality and design appeal.



ASA stands out for its exceptional UV resistance, making it the perfect choice for co-extruded protective layers on technical profiles, window frames and decking, significantly extending product lifetime in outdoor environments.

Engineering compounds

	Relative density	MFR (200°C/5 kg)	MFR (220°C/10 kg)	Tensile modulus	Flexural modulus	Charpy impact (neA) strength notched	Charpy impact (neU) strength unnotched	Vicat (B120)	HDT (B)	Renewable content	Recycled content	Carbon footprint *	Main properties	Applications
UNIT	g/cm³	g/10 min	g/10 min	MPa	MPa	kJ/m²	kJ/m²	°C	°C		%	kg CO_2 eq/kg	-	-
STANDARD	ISO 1183-1	ISO 1133-1	ISO 1133-1	ISO 527-1	ISO 178	ISO 179-1	ISO 179-1	ISO 306	ISO 75-1			PAS 2050		
Injection Moulding														
Beobase 25 PS wood INJ025	1,04	6,6	-	3820	4200	2,9	7,6	84	81 80,5	★	-	1,842	Visual wood fibre, High stiffness	General purpose, Industrial goods, Furniture, Household, Packaging
Beobase 25 rPS wood INJ026	1,12	3,0	-	5970	5900	1,8	5,6	95	91 91,0	★	>70	0,171	Visual wood fibre, High stiffness, Recycled	Industrial and consumer goods
Beobase 15 ABS wood INJ026	1,06	-	13,0	3750	4000	5,3	10,3	94	92 91,5	-	-	2,658	Visual wood fibre, High stiffness	Industrial and consumer goods, Furniture, Household, Packaging
Beobase 15 rABS wood INJ027	1,10	-	24,5	3220	3330	3,8	8,1	93	91 90,6	-	>80	0,525	Visual wood fibre, High stiffness, Recycled	Industrial and consumer goods, Furniture, Household
Beobase 20 ASA wood INJ047	1,13	-	10,5	4370	3660	3,0	14,2	96	96 95,8	★	-	3,505	Visual wood fibre, High UV resistance	General purpose, Industrial goods, Furniture, Household, Outdoor
Beocycle PS INJ121 UV	1,05	9,0	-	3450	3360	1,4	30,0	98	90 90,3	-	>99	0,049	Recycled, UV- and thermal stabilised	General purpose, Industrial goods, Furniture, Household, Outdoor
Beocycle ABS INJ559 UV	1,07	-	44,0	2000	2035	6,5	39,3	91	86 86,3	-	>99	0,558	Recycled, UV- and thermal stabilised	Household, Outdoor
Beocycle ABS INJ570 IM	1,00	-	22,0	2510	2445	9,9	16,6	105	121	-	>90	0,867	High impact at low temperature, Recycled	Industrial and consumer goods, Appliances
Beocycle PA INJ566 Ocean	1,13	-	-	2500	1700	4,0	30,0	-	-	-	>99	0,414	Recycled, UV- and thermal stabilised	Industrial and Technical parts, Consumer goods, Lifestyle products
Beosmart ASA INJ550	1,06	-	13,0	2140	2245	15,1	-	94	93	-	-	4,350	UV resistant, Moderate stiffness, Good impact	General purpose, Industrial goods, Furniture, Household
Extrusion														
Beobase 20 ASA wood COEX048	1,10	-	4,0	3160	3330	2,9	15,6	-	94	★	-	3,510	Visual wood fibre, High UV resistance	Co-extrusion, Outdoor, Decking, Cladding, Technical profiles
Beocycle PS EXT118	1,05	9,0	-	3450	3360	1,4	30,0	98	90	-	100	0,016	Recycled content, General purpose PS	Technical profiles, Indoor, Foam
Beosmart ASA COEX551	1,05	-	5,0	1820	1830	20,0	-	-	-	-	-	4,350	Co-extrusion, High UV resistance	Co-extrusion, Outdoor, Decking, Cladding, Technical profiles

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