

A logical product range

Our experience and the interaction with our customers has enabled us to rationalize our compound offer along two axes: biodegradability and the origin of the feedstock.



The illustration shows how our brands perform in terms of biodegradability and origin of the feedstock. In this framework, many possible combinations are yet to be explored. We look forward to your ideas.



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Nature offers us surprising possibilities
We produce biodegradable and compostable compounds





The beograde family of compounds includes mainly blends of fossil and bio-based biodegradable polymers. We increasingly replace the plastic substrate by a biodegradable alternative. Adding wood creates a look and a feel that emphasizes the biodegradable characteristics.

MAIN CHARACTERISTICS

Biodegradable/compostable
Opaque or transparent
Pure or natural fibre/mineral filled
Food compliance possible
Optional certification

TYPICAL MATERIALS

PLA, PHA, PHBH, PBAT, PBS

TARGET PROCESSING

Thermoforming sheet extrusion
Injection
Blow moulding
Film extrusion
Other processing on request

biodegradable — durable

- ☒ bio-based
- ☒ fossil-based
- ☒ carbon neutral by default

USED FOR

Bags, food packaging, coffee cups, cosmetics packaging, bottles, canisters, caps, closures, bins, trays, technical parts, shrink/stretch films, toys, cutlery, kitchenware

	Article number	Applications	Relative Density ISO 1183-1	MFR (190°C/2,16 kg) ISO 1133-1	Tensile Modulus ISO 527	Tensile Strength ISO 527	Elongation at break ISO 527	Flexural Modulus ISO 178	Charpy impact strength notched ISO 179/1eA	HDT °C ISO 75	Renewable content -	Wood fibre reinforced %	Mineral filled -	Translucent -	Food Contact approval* EU 10/2011	Biodegradability EN 13432	Main properties	Applications
UNIT			g/cm³	g/10 min	MPa	MPa	%	MPa	kJ/m²	°C	-	%	-	-	-	-		
STANDARD			ISO 1183-1	ISO 1133-1	ISO 527	ISO 527	ISO 527	ISO 178	ISO 179/1eA	ISO 75	-	-	-	-	EU 10/2011	EN 13432		
INJECTION MOULDING																		
Beograde INJ033	9802070033	Injection moulding	1,15 - 1,25	38	2310	39,7	15	2063	7,6	57 - 60	★★				✓	✓	General purpose, high strength, high stiffness, high MFI	General purpose, industrial and consumer goods, household, food packaging
Beograde INJ038	9802070038	Injection moulding	1,15 - 1,25	17	1610	28	26	1350	12	57 - 60	★★★				✓	✓	Alternative to PP, high impact, good flexibility	General purpose, industrial and consumer goods, household, food packaging
Beograde INJ039	9802070039	Injection moulding	1,25 - 1,35	19	3390	40	3,5	3040	5,3	57 - 60	★★★★		✓		✓	✓	Easy to color, high stiffness, mineral filled	General purpose, industrial and consumer goods, household, food packaging
Beograde 10 INJ027	1090070027	Injection moulding	1,20 - 1,25	16	2580	34	5,2	2300	5	57 - 60	★★★★	✓ ₁₀			✓	✓	Wood fibre for visual aspect	General purpose, industrial and consumer goods, household, food packaging
Beograde 20 INJ044	2080070044	Injection moulding	1,25 - 1,35	8,7	3290	35	3	3010	5,3	57 - 60	★★★★	✓ ₂₀			✓	✓	Wood fibre for visual aspect	General purpose, industrial and consumer goods, household, food packaging
THERMOFORMING																		
Beograde THF040	9802070040	Thermo-forming	1,28 - 1,35	2 - 3	3520	40	16	3092	9,9	57 - 60	★★★★		✓		✓	✓	General purpose, high strength, high stiffness, low MFI, glossy	Packaging, industrial and consumer goods, furniture, household, food packaging
Beograde 05 THF024	0595070024	Thermo-forming	1,20 - 1,25	3 - 4	1440	22,8	35	1212	31,2	57 - 60	★★	✓ ₅			✓	✓	Wood fibre for visual aspect	Packaging, industrial and consumer goods, furniture, household, food packaging
EXTRUSION																		
Beograde EXT041	9802070041	Extrusion	1,25 - 1,35	3 - 4	3250	46	7	2788	6,6	57 - 60	★★★★		✓		✓	✓	High strength, rigid melt stabilized, good thermostability	Profile extrusion, industrial and consumer goods, household, food packaging
Beograde EXT042	9802070042	Extrusion	1,25 - 1,35	3 - 4	2090	31,4	26	1808	14,2	57 - 60	★★		✓		✓	✓	Alternative to PP/PE, high impact, good flexibility	Profile extrusion, industrial and consumer goods, household, food packaging
Beograde 10 EXT028	1090070028	Extrusion	1,20 - 1,30	3 - 4	3640	47,1	1	3473	5,1	57 - 60	★★★★	✓ ₁₀			✓	✓	Wood fibre for visual aspect	Profile extrusion, industrial and consumer goods, household, food packaging
Beograde EXT052	9802070052	Extrusion	1,20 - 1,30	7 - 8	1010	26	305	1550	72	50 - 55	★★				✓	✓	High MFI, good flexibility and high impact	Profile extrusion, industrial and consumer goods, household, food packaging
BOTTLING																		
Beograde BTL035	9802070035	Bottling	1,15 - 1,25	4 - 5	1340	22,8	175	1072	96,4	57 - 60	★				✓	✓	Soft, glossy, good mechanical properties	Blow moulding extrusion, industrial and consumer goods, household, food packaging
Beograde BTL043	9802070043	Bottling	1,25 - 1,35	4 - 5	2660	37,9	9	2222	8,9	57 - 60	★★★★		✓		✓	✓	Semi-rigid, high melt strength, excellent processability	Blow moulding extrusion, industrial and consumer goods, household, food packaging
Beograde 05 BTL023	0595070023	Bottling	1,25 - 1,35	3 - 4	1140	18,8	250	1077	32	57 - 60	★★	✓ ₅			✓	✓	Wood fibre for visual aspect	Blow moulding extrusion, industrial and consumer goods, household, food packaging
FILM EXTRUSION																		
Beograde FLM046 T	9802070046	Film extrusion	1,15 - 1,25	5	977	21,7	291	907	66	N/A	★			✓	✓	✓	Transparent, tear strength, thin films	Film extrusion, packaging, industrial and consumer goods, household, food packaging
Beograde FLM044 O	9802070044	Film extrusion	1,25 - 1,30	3 - 4	1260	17	190	960	78	57 - 60	★		✓		✓	✓	Opaque, glossy, flexible	Film extrusion, packaging, industrial and consumer goods, household, food packaging
Beograde FLM048	9802070048	Film extrusion	1,20 - 1,30	3 - 4	780	19,2	390	680	76	N/A	★		✓			✓	Opaque, good flexibility, high elongation	Film extrusion, packaging, industrial and consumer goods, household, food packaging

For keeping product properties we recommend to store the material in dry conditions below 50°C and protected from UV-light



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