

A photograph of a dining table with a brown bucket containing a bottle of wine and a glass of wine. The text "Sustainable injection moulding compounds" is overlaid on the image. The word "injection" is in a smaller font, "moulding" is in a large, bold font, and "compounds" is in a smaller font below it. The word "Sustainable" is positioned above "injection".

Sustainable  
**injection  
moulding**  
compounds

**Nature** offers  
us surprising  
possibilities.



At the SDG group, our main goal is being part of a sustainable (work)environment. Through a common concern for the environment, we try to assist our customers and partners in the process towards carbon neutrality. In this way we try to continue working together for a sustainable future.



Article number	Relative density	MFR (190°C/2,16 kg)	MFR (200°C/5 kg)	MFR (220°C/10 kg)	MFR (230°C/2,16 kg)	Tensile modulus	Tensile strength	Elongation at break	Flexural modulus	Charpy impact strength notched (ftA)
UNIT	g/cm <sup>3</sup>	g/10 min	g/10 min	g/10 min	g/10 min	MPa	MPa	%	MPa	kJ/m <sup>2</sup>
STANDARD	ISO 1183-1	ISO 1133-1	ISO 1133-1	ISO 1133-1	ISO 1133-1	ISO 527-1	ISO 527-1	ISO 527-1	ISO 178	ISO 179-1
Beobase 25 PP wood INJ074	2575050074	1,00			21,6	2950	32,0	3,1	2575	2,9
Beobase 25 rPP wood INJ122	2575050122	0,98			26,5	2590	38,9	4,8	2515	2,3
Beobase 25 PP rice husk INJ097	2575050097	0,99			27,2	2360	28,1	3,9	2304	2,4
Beobase 10 PP cotton INJ044 Black	1090050044	0,93			17,8	1790	30,4	9,5	1793	4,9
Beobase 25 PP cork INJ118	2575050118	0,96			4,1	1200	19,8	3,8	1229	2,8
Beobase 25 PP bamboo INJ092	2575050092	0,99			25,4	3350	34,8	3,9	3384	4,5
Beobase 25 PP cellulose INJ112	2575050112	1,01			6,8	2800	37,1	8,9	2667	3,7
Beobase 25 PP flax shives INJ120	2575050120	0,97			16,6	2640	29,7	2,1	2690	2,5
Beobase 25 PP wood INJ132 GF	2575050132	1,00			20,4	3700	44,4	3,4	3315	4,5
Beobase 25 rPP UBQ Sunrise INJ131	2575050131	0,97			29,5	1430	23,8	11,7	1424	2,7
Beobase 25 PS wood INJ025	2575060025	1,04	6,6			3820	25,1	2,1	4200	2,9
Beobase 25 rPS wood INJ026	2575060026	1,12	3,0			5970	46,3	1,2	5903	1,8
Beobase 15 ABS wood INJ026	1585070026	1,06		12,8		3750	45,9	2,1	4007	5,3
Beobase 15 rABS wood INJ027	1585070027	1,10		24,7		3220	31,3	2,7	3331	3,8
Beobase 25 PE wood INJ025	2575020025	1,00	9,1		24,0	576	13,6	13,3	576	10,7
Beobase 25 PE wood INJ026	2575020026	1,03	5,7		14,7	2130	24,8	3,8	2055	3,1
Beobase PE INJ223	9802100223	1,01			33,3	1380	23,1	28,6	1328	2,3
Beobase 20 ASA wood INJ047	2080070047	1,13		10,5		4370	50,9	2,2	3657	3,0
Beobase 15 TPU wood INJ028	1585070028	1,00	0,7			62,8	8,0	313	78,3	NA
Beograde INJ036 T	9802070036	1,24	30,0			3770	65,8	1,9	4132	3,6
Beograde INJ038	9802070038	1,23	17,0			1610	28,0	26,1	1350	12,0
Beograde INJ039	9802070039	1,37	19,0			3390	40,0	3,3	3040	5,3
Beograde 10 wood INJ027	1090070027	1,24	16,3			2580	34,2	5,2	2296	5,0
Beocycle PP INJ769 OceanIX	9805000769	0,92			3,3	1240	32,7	170	1422	4,2
Beocycle PP INJ770 UV	9805000770	0,90			33,0	1040	30,8	271	1287	3,7
Beocycle PS INJ121 UV	9806000121	1,05	9,0			3450	53,1	2,5	3559	1,4
Beocycle ABS INJ559 UV	9807000559	1,07		44,0		2000	26,1	28,1	2035	6,5
Beocycle PE INJ222 UV OceanIX	9802100222	0,90	2,0			552	19,0	541	628	15,0
Beocycle PE INJ238 NordIX	9802100238	0,95	0,5			625	20,0	246	678	22,2
Beocycle TPE INJ546	9807000546	0,93	5,0			104	8,3	144	93,4	NA
Beocycle TPE INJ560	9807000560	0,90	2,6			13,7	2,2	NA	19,3	NA
Beosmart ASA INJ550	9807000550	1,06		13,0		2140	49,1	5,3	2246	15,1

For keeping product properties we recommend to store the material in dry conditions below 50°C and protected from UV-light  
If you do not find the right compound we can develop a formulation for your application.

You can find out more about us by visiting our website at: [www.beologic.com](http://www.beologic.com).  
Before using our compounds, customers and other users should make their own independent determination that the product is suitable for the intended use.  
They should also ensure that they can use the compounds safely and legally. MSDS is available on request.  
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Charpy impact strength unnotched (1eJ)	Vicat softening point (A120)	Vicat softening point (B120)	HDT (E)	Natural fibre content	Renewable content	Recycled content	Biodegradable	Carbon footprint	Main properties	Applications
kJ/m <sup>2</sup>	°C	°C	°C	%	-	%	-	kg CO <sub>2</sub> eq/kg	-	-
ISO 179-1	ISO 306	ISO 306	ISO 75-1	-	-	-	EN13432	PAS 2050		
14,3		111	145	✓25	★			1,376	Visual wood fibre, High stiffness	General purpose, Industrial and consumer goods, Furniture, Household, Food packaging
13,0		108	122	✓25	★	>70		0,602	Visual wood fibre, High stiffness, Recycled content	General purpose, Industrial goods, Furniture, Household, Non-food packaging
15,2		104	142	✓25	★			1,376	Visual natural fibre, High stiffness	General purpose, Furniture, Household, Consumer goods
44,8		95,2	116	✓10				1,625	Visual textile fibre, Good impact-stiffness balance	Industrial and consumer goods, Furniture, Non-food markets
14,8		84,2	89,9	✓25	★			1,376	Visual natural fibre, Rough surface finish	General purpose, Furniture, Household, Consumer goods
15,4		105	144	✓25	★			1,376	Visual natural fibre, High stiffness and good impact	General purpose, Industrial goods, Furniture, Household, Non-food packaging
36,8		115	140	✓25	★			1,394	Non visual natural fibre, Good impact-stiffness balance	General purpose, Industrial goods, Furniture, Household, Non-food packaging
11,3		108	142	✓25	★			1,376	Visual natural fibre, High stiffness	General purpose, Industrial goods, Furniture, Household, Non-food packaging
23,5		113	146	✓10				1,735	Visual natural fibre, High stiffness and good impact	Industrial and consumer goods, Furniture, Non-food markets, Automotive
19,4		79,0	86,0	✓25		>98		-0,508	Low carbon footprint, Recycled content	Industrial and consumer goods, Furniture, Non-food markets
7,6		84,0	80,5	✓25	★			1,843	Visual wood fibre, High stiffness	General purpose, Industrial goods, Furniture, Household, Non-food packaging
5,6		95,1	91,0	✓25	★	>70		0,681	Visual wood fibre, High stiffness, Recycled content	Industrial and consumer goods
10,3		93,9	91,5	✓15				3,908	Visual wood fibre, High stiffness, Higher thermal stability	Industrial and consumer goods, Furniture, Household, Food packaging
8,1		93,4	90,6	✓15		>80		-	Visual wood fibre, High stiffness, Recycled content	Industrial and consumer goods, Furniture, Household, Non-food markets
33,7	86,1		59,0	✓25	★★★★★			0,148	Visual wood fibre, Flexible LDPE, Bio-based content	All markets, High level of bio-based material
10,5	124		98,4	✓25	★★★★★			0,148	Visual wood fibre, High stiffness HDPE, Bio-based content	All markets, High level of bio-based material
68,6		68,7	68,5		★★★★★			1,943	Bio-based content, PP properties	All markets, High level of bio-based material
14,2		96,1	95,8	✓20	★			0,802	Visual wood fibre, High UV resistance, High stiffness	General purpose, Industrial goods, Furniture, Household, Non-food packaging, Outdoor
NA	66,7		NA	✓15				4,737	Visual wood fibre, Impact resistant, Shore A 86	Household, Furniture, Visual and technical flexible pieces, Consumer goods
18,3	59,7		60,0		★★★★★		✓	3,070*	Biodegradable, Transparent, Bio-based content	General purpose, Transparent pieces
NA	62,9		57,7		★★★★		✓	5,565*	Biodegradable, High impact	General purpose
NA	61,0		57,4		★★★★		✓	3,514*	Biodegradable, High stiffness	General purpose
NA	64,3		57,0	✓10	★★★★		✓	4,572*	Visual wood fibre, Biodegradable, High impact	General purpose, Visual and technical pieces
NA		86,5	80,4			>99		0,142	Recycled content, Ocean waste, Performance re-upgraded	General purpose, Household, Non-food applications, Visual pieces
97,7		85,3	81,3			>99		0,746	100% Recycled, UV- and thermal stabilised	General purpose, Industrial goods, Furniture, Household, Outdoor, Non-food packaging
30,0		97,9	90,3			>99		0,756	100% Recycled, UV- and thermal stabilised	General purpose, Industrial goods, Furniture, Household, Non-food packaging, Outdoor
39,3		90,8	86,3			>99		-	100% Recycled, UV- and thermal stabilised	Household, Non-food markets, Outdoor
NA	120		56,2			>50		1,150	Recycled content, Ocean waste, UV stabilised	General purpose, Industrial goods, Furniture, Household, Non-food packaging
NA	126		59,8			>99		0,780	Recycled content, Land waste, Performance re-upgraded	General purpose, Household, Non-food applications, Visual pieces
NA		NA	40,7			>99		0,730	100% Recycled, Flexible, Shore A 95	Non-food applications, Furniture, Household, Automotive
NA		NA	NA			>35		1,796	Recycled content, Flexible, Shore A 72	Non-food applications, Furniture, Household, Flooring
NA		94,0	93,0					0,970	UV resistant, Moderate stiffness, Good impact	General purpose, Industrial goods, Furniture, Household, Non-food packaging

\*Coloured in the mass compounds and other modifications are available on request.  
Other natural fibres are available on request.



# A logical product range.





# SUSTAINABLE DEVELOPMENT GROUP

[www.sdg.be](http://www.sdg.be)



A NATURAL IN COMPOUNDS

[info@beologic.com](mailto:info@beologic.com)  
[beologic.com](http://beologic.com)



A NATURAL IN INNOVATION

[info@innologic.be](mailto:info@innologic.be)  
[innologic.be](http://innologic.be)



CARBON FOOTPRINT CONSULTING

[info@neutrologic.com](mailto:info@neutrologic.com)  
[neutrologic.com](http://neutrologic.com)



A NATURAL IN AUTOMATION

[info@techniks.be](mailto:info@techniks.be)  
[techniks.be](http://techniks.be)



A NATURAL IN TOOLING

[info@beotool.com](mailto:info@beotool.com)  
[beotool.com](http://beotool.com)