



# Beobase 25 PP olive pit INJ121

## Material Technical Data Sheet

Date of issue: 16/03/2021 Version: 2.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Granulate
Name	: Beobase 25 PP olive pit INJ121
Product code	: 2575050121
Application	: Injection moulding
Composition	: 25% olive pit + 75% PP and additives

#### 1.2. Details of the supplier of the material specification sheet

##### Manufacturer

Beologic  
 Jolainstraat 44  
 8554 Sint-Denijs  
[info@beologic.com](mailto:info@beologic.com)

### SECTION 2: Physical, mechanical and thermal properties

#### 2.1. Information on basic physical, mechanical and thermal properties

Properties <sup>(1)</sup>	Method	Typical Value	Unit
<b>Physical</b>			
Physical state		Solid	
Relative density	ISO 1183-1	0,94-1,04	g/cm <sup>3</sup>
MFI (230°C, 2,16 kg)	ISO 1133-1	37	g/10min
Coloured in mass		NO	
Colour material		Natural brown	
UV package		NO	
Carbon footprint <sup>(2)</sup>	PAS 2050	1,376	kg CO <sub>2</sub> Eq/ kg
Shelf life <sup>(3)</sup>		6	Months
<b>Mechanical</b>			
Tensile modulus	ISO 527	1980	MPa
Tensile strength	ISO 527	27	MPa
Elongation at break	ISO 527	4,2	%
Flexural modulus	ISO 178	1866	MPa
Charpy impact strength (Notched 1eA , 23 °C)	ISO 179	2,5	kJ/m <sup>2</sup>
(Unnotched 1eU, 23 °C)	ISO 179	18	kJ/m <sup>2</sup>
Vicat softening point (B120)	ISO 306	94	°C
HDT	ISO 075 B	115	°C

(1) Typical properties; not to be construed as specifications.

(2) Carbon footprint calculated by Neutrologic

(3) Only if storage conditions were followed

#### 2.2. Product Carbon footprint

The product carbon footprint helps to define the amount of greenhouse gas emissions generated by a product along its life cycle, it quantifies the ghg-emissions related to the production of our products.

Beologic calculates the carbon footprint of all sales products and this from cradle to gate.

The calculation of the carbon footprint is in accordance with the internationally recognized Greenhouse Gas Protocol Product Standard which is based on the standard ISO-14067 norm and PAS2050.

The carbon footprint is mentioned in our datasheet - by offsetting or compensating the calculated emissions we can present our products as Carbon Neutral compounds. This compensation is according the Verified Carbon Standard – more info via ([www.v-c-s.org](http://www.v-c-s.org)).

#### 2.3. Other information

No additional information available



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### SECTION 3: Processing conditions – guidelines

Hopper	40 – 60	°C
Feeding zone	165 – 175	°C
Compression zone	170 – 180	°C
Metering zone	180 – 190	°C
Nozzle	190 – 200	°C
Mold temperature	30 – 60	°C

#### 3.1 Plasticizing

We recommend to keep the residence time as short as possible, use low screw RPM to fill up the screw carefully and have the material in motion as much as possible.

For optimal process ability, the shot size should be between 35% and 75% of the machine's maximum plasticizing capacity. Too small shot size can cause degradation because of the excessive residence time.

#### 3.2 Backpressure

Use minimal backpressure when loading the barrel in order to avoid unwanted, uncontrolled friction heating.

#### 3.3 Hold pressure

Beobase 25 PP olive pit INJ121 does not require much holding pressure.

#### 3.4 Cooling

Increased mould temperature will normally result in better surface appearance.

Start with 30°C and then increase the mould temperature until the molded piece looks good. Better particle distribution in the mould can normally also be achieved by increased mould temperature.

#### 3.5 Injection speed

High injection speed normally gives the best particle distribution and surface appearance.

#### 3.6 General comments

Because this material cools quickly and the fibres keep the molded part together, many molders can reduce their cycle times up to 40% by using a wood-polymer material compared to unfilled materials.

Discoloured molded parts and/or a burnt smell is a symptom of a too high temperature, too long residence time or uncontrolled friction heat. To provide burning or damaging of the screw, barrel or tool, it's obliged to stop the machine only after it has been cleaned with pure PP or cleaning compound.

Beobase is not compatible with a wide variety of other resins, and special purging sequences should be followed:

1. Before production, ensure to clean the injection moulding machine and bring temperature to steady state with general purpose PP or PE.
2. Vacuum out hopper system to avoid contamination.
3. Introduce Beobase into the injection moulding machine at the operating conditions used in step one.
4. At shutdown, purge machine with polypropylene or cleaning compound. It's obliged to stop the machine only after it has been cleaned with pure PP or cleaning compound.

### SECTION 4: Drying and storage conditions

We recommend drying Beobase 25 PP olive pit INJ121 at maximum 100°C for a period of 2 hours or 80°C in maximum 4 hours. Don't overheat or dry it longer than recommended. Residual moisture content (> 0.2%) can result in lower melt stability, surface mark or bubble formation during processing.

We recommend to store the material in dry conditions below 50°C and protected from UV-light. Opened (big)bags should be used immediately or adequately sealed back up after use to avoid moisture uptake and have negative effects on the physical properties of the product. It is recommended to use Beobase granules within a time period of maximum 6 months.

Finished product made from Beobase should be stored dry and cold. Storage time and lifetime of finished products depends on processing parameters and on storage conditions (moisture, UV radiation ...).