



Beosmart EVA RTM541 flexible

Material Technical Data Sheet

Date of issue: 06/01/2023 Version: 3.0

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

1.1. Product identifier

Product form	:	Powder
Name	:	Beobase EVA RTM541 flexible
Product code	:	9807000541
Application	:	Rotomoulding
Composition	:	100% EVA and additives

1.2. Details of the supplier of the material specification sheet

Manufacturer

Beologic
Jolainstraat 44
8554 Sint-Denijs
info@beologic.com

SECTION 2: Physical, mechanical and thermal properties

2.1. Information on basic physical, mechanical and thermal properties

Properties ⁽¹⁾	Method	Typical Value	Unit
Physical			
Physical state		Solid	
Relative density	ISO 1183-1	0,87-0,97	g/cm ³
MFI (190°C, 2,16 kg)	ISO 1133-1	35-40	g/10min
Coloured in mass		NO	
Colour material		/	
Transmission		Transparent	
UV package		NO	
Carbon footprint ⁽²⁾	PAS 2050	2,250*	kg CO ₂ Eq/ kg
Shelf life ⁽³⁾		6	Months

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

(2) Carbon footprint calculated by Neutrologic

(3) Only if storage conditions (section 5) were followed

*Due to continuous variation of feedstock this figure reflects value of September 2022. Update latest carbon footprint available on request.

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.

Neutrologic 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).

2.3. Other information

No additional information available

SECTION 3: Processing conditions-guidelines

3.1. Processing procedure – lab environment:

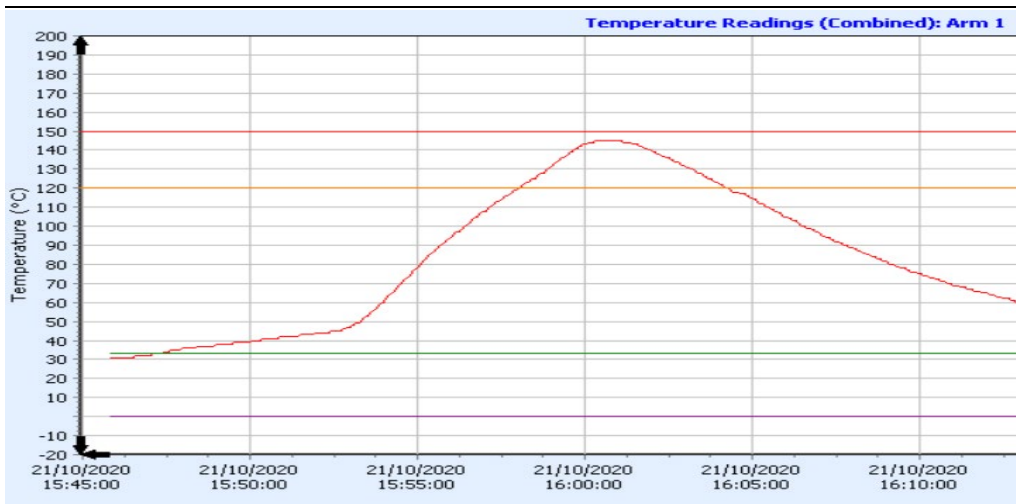
1. Procedure based on inner mould temperature/inner air temperature (IAT) measured on lab scale.
2. IAT start at 110°C – 120°C and gradually increase with step of 5°C to 140°C – 150°C.
3. PIAT ≤ 150°C.
4. Residence time: depending on application or product fe. 100 gr – 20 minutes.
5. Check energy absorption of the product.
6. Typical temperature flow chart IAT – see chart below.



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3.2. Processing measurements- lab scale environment

Powder pick-up temperature (°C)	40 - 50
Optimum PIAT (°C)	140 - 150
Demolding temperature (°C)	20 - 30
Thickness distribution	Excellent

SECTION 4: General advice

4.1. General info

Beosmart EVA RTM541 flexible is not compatible with a wide variety of polyolefins some special sequences should be followed:

1. Before production, ensure to clean equipment and check oven temperature to a controlled condition.
2. Vacuum out on any hopper/blending or other mixture equipment system to avoid contamination.
3. Introduce **Beosmart EVA RTM541 flexible** into the equipment at the operating conditions.
4. Once **Beosmart EVA RTM541 flexible** is introduced, check inner air temperature.
5. At shutdown, clean your equipment and remove all remaining residue from the mall.

At higher temperature, the dwell time of the material inside the machine shall be reduced to a minimum in order to lower the risk of degradation. Do not leave the material hot inside the machine for long periods as the material will degrade.

SECTION 5: Drying and storage conditions

Beosmart EVA RTM541 flexible is supplied with a low residual moisture content and does not need any drying. If the material needs to be dried, we recommend drying **Beosmart EVA RTM541 flexible** at max 40°C for 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 40°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 Beosmart powder within a time period of maximum 6 months.

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