

TECHNICAL DATA SHEET

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SEA®249 COMPOUND

The SEA®249 grade is 100% biodegradable in industrial compost and more than 80% bio-based. It has been developed for the extrusion process, and more specifically for mesh extrusion.



Storage information

Storage and drying conditions of the **SEA®249** compound to achieve optimal processing conditions (i.e. humidity level below 700 ppm) and ensure good properties :

- Keep the compound granules in its closed bag, in a room without humidity, at room temperature and without sources or heat, light or air.
- Keep the bag closed until processing of the compound and close it again quickly after use if it is not completely empty to avoid any contamination.
- If possible, dry the compound at 60°C during 6 to 8 hours (standard) before processing. After drying, the granules can reach 680 ppm of moisture in 1 hour.
- After processing, it is not recommended to heat the material over 80°C.

Property	Standar d	SEA® 249
Density (g/cm ³)	ISO 1183	1,25
Melting temperature (° C)	ISO 3146	120
Application temperature (°C)	/	< 90
MFI (170°C, 2.16 kg) (g/10min)	ISO 1133	3 - 8
Tensile modulus (GPa)	ISO 527	0,91
Ultimate strength (UTS) (MPa)	ISO 527	35 - 36
Elongation at UTS(%)	ISO 527	20 - 21
Strength at break (MPa)	ISO 527	40 - 41
Elongation at break (%)	ISO 527	405 - 410

Implementation process

Cleaning of the processing tool may be necessary to avoid any contamination. The presence of impurities can cause industrial tests to fail.

- Avoid a long period of stagnation of the material during processing to protect it from thermal degradation which could lead to a reduction in the properties and production instabilities.
- It is highly recommended to have a material temperature in the extruder around 150°C. If needed, gradually increase

it to a temperature deemed optimal for use.

Process temperature (indicative)		
Drying conditions	60 °C for 6 hours	
Feeding	60 °C	
Zones 5 to 1	160 / 150 / 150 / 150 / 145	