

Pellets

Technical Data Sheet

BIOMAT B0267

A biodegradable polyester compound specifically designed for film extrusion, capable of producing both mono- and multilayer films. This innovative compound is certified by TÜV AUSTRIA Belgium according to the OK compost HOME standard (NF T51-800 [11-2015]).

Applications		Features	
Multilayer Monolayer Film Bags		Home-Compostable Biodegradable	
Sustainability			
Bio-Based Content 100%			
Compostability Home Compostable	9		
Physical Properties			
Density	1.28 g/cm ³	ISO 1183	
Melt Volume Flow Rate	0.5 - 5 cm ³ /10m	in ISO 1133	
Film Properties			
Elongation at Break	390 %	ISO 527-3	Machine Direction
Elongation at Break	550 %	ISO 527-3	Transverse Direction
Film Thickness	18 - 31 μm		
Tear Strength	210 MPa	ISO 6383	Machine Direction
Tear Strength	240 MPa	ISO 6383	Transverse Direction
Tensile Modulus	170 MPa	ISO 527-3	Machine Direction
Tensile Modulus	120 MPa	ISO 527-3	Transverse Direction
Tensile Strength	19 MPa	ISO 527-3	Machine Direction
Tensile Strength	19 MPa	ISO 527-3	Transverse Direction
Processing Methods			
Film Extrusion			
Extrusion Parameters			
Cylinder Zone 1 Temp. 1	40 - 155 °C		
Cylinder Zone 2 Temp. 1	45 - 155 °C		
Cylinder Zone 3 Temp. 1	50 - 160 °C		
Cylinder Zone 4 Temp. 1	55 - 165 °C		
Die Temperature 1	50 - 170 °C		
Transition 1	50 - 170 °C		



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Notes

Safety precautions:

- Processing at a melt temperature not higher than 175 °C
- · Processing with adequate ventilation

Handling:

- Delivered with ready-to-use moisture content
- · Keep package sealed until use
- · Reseal opened package directly after use

Drying:

- In case the product becomes too humid, drying at 80 °C for 4 h by using a vacuum dryer or purging with dry air (dew point -35 °C)
- Recommended humidity below 0.2 %

Start-up:

- Purge with polyolefin with MFR = 4-7 g/10 min for ~10 minutes
- Lower the temperature to recommended settings
- Start transition while purging when the temperatures are within 10 °C of desired range

Extrusion equipment:

- · Designed for standard extrusion lines
- Die gap: 0.5-1.6 mm
- Dual-lip air ring recommended, also IBC if possible
- Chilled air supply leads to more stable bubble on higher output rates

Interruption & shut-down:

- Never leave product in the extruder for a longer period, e.g. over night
- By interruption for a considerable time, slow down screw speed to 5 rpm approx.
- For a longer period, please purge with same polyolefin from start-up procedure

Estimated Properties

Properties identified as 'Estimated**' have been estimated from the generic equivalent. These are provided for comparative purposes and are not reflective of the actual grade as the relevant data is not available.

Storage Recommendations

Keep dry at ambient temperature. Store indoors avoiding a humid environment, heat and direct sunlight. Use material within 6 months after delivery date, in order to prevent possible material quality deterioration.

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