EMNANDI BIOPLASTICS
BEYOND NET ZERO

Technical Data Sheet

BIOMAT BIOPBS C213B

BIOMAT BIOPBS C213B is bio-based polybutylene succinate (PBS) produced from polymerisation of bio-based succinic acid and 1,4-butanediol. Alike LDPE, BIOMAT BIOPBS C213B is soft and flexible semi-crystalline polyester with excellent properties suitable for injection molding articles for general purpose.

OK COMPOST, OK COMPOST HOME and OK Biodegradable SOIL certified

Applications	Features
General Purpose	Food Contact Acceptable
	Home-Compostable
	Semi Crystalline
	Renewable Resource Content
	Good Processability
	Impact Resistance
	Good Flexibility
	Good Dimensional Stability
	Compostable

Sustainability	
Bio-Based Content	50%
Compostability	Home Compostable

Physical Properties				
Density	1.24	g/cm³	ISO 1183	
Melt Mass Flow Rate	22	g/10min	ISO 1133	(190°C/2.16 kg)

Mechanical Properties				
Flexural Modulus	300	MPa	ISO 178	
Flexural Strength	17	MPa	ISO 178	
Heat Distortion Temperture	63	°C	ISO 75-1	
Izod Impact Strength	40	kJ/m²	ISO 180	23°C
Rockwell Hardness , R-Scale	42		ISO 2039-2	
Shrinkage	0.63	%		Flow
Tensile Modulus	310	MPa	ISO 527-2	
Tensile Strain at Break	450	%	ISO 527-2	
Tensile Stress at Break	24	MPa	ISO 527-2	
Tensile Stress at Yield	17	MPa	ISO 527-2	

Thermal Properties				
Heat Distortion Temperture	63	°C		Under Load 0.45 MPa, Unannealed
Melt Temperature	84	°C		

Processing Methods	
Injection Moulding	

Injection Parameters	
Front Temperature	155 °C
Hopper Temperature	50 °C
Middle Temperature	150 °C
Mould temperature	10 °C
Nozzle Temperature	160 °C
Rear Temperature	145 °C

Notes

Supplied form, storage condition and drying condition:
Pellets are dried and packed in aluminum-lined packaging before delivering to customers.
Do not store outdoors. Keep dry at ambient temperature. Avoid humid environment, heat and direct sunlight.
Use material within 6 months after delivery date, in order to prevent possible material quality deterioration.
Pre-dry of the unopened product is not necessary. It is recommended to keep packages sealed until ready to process and using up the whole 25-kg bag. Unused material should be tightly sealed, kept away from open air, and pre-dried (Temperature 70°C for over 5 hours) to moisture content of less than 1,000 ppm (preferable less than 700 ppm) prior to using next time.

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.