

BIOMAT BIOPBS C313A is a bio-based polybutylene succinate (PBS) produced from polymerisation of bio-based succinic acid and 1,4-butanediol. Alike LDPE, BIOMAT BIOPBS C313A is soft and flexible semi-crystalline polyester with excellent properties suitable for injection moulding articles for general purpose.

Applications		Features	
General Purpose		Semi Crystalline High Heat Resistance Short Cycle Time Soft and Flexible Dimensional Stability Renewable Resource Content Good Processability Food Contact Acceptable	
Sustainability			
Bio-Based Content	51%		
Compostability	Industrially Compostable		
Physical Properties			
Density	1.26 g/cm ³	ISO 1183	
Melt Mass Flow Rate	22 g/10min	ISO 1133	(190°C/2.16 kg)
Mechanical Properties			
Flexural Modulus	630 MPa	ISO 178	
Flexural Strength	40 MPa	ISO 178	
Notched Izod Impact Strength'	7 kJ/m ²	ISO 180	
Shrinkage	1.4 %		Flow
Tensile Strain at Break	170 %	ISO 527-2	
Tensile Stress at Break	30 MPa	ISO 527-2	
Tensile Stress at Yield	40 MPa	ISO 527-2	
Thermal Properties			
Glass Transition Temperature	28 °C		
Heat Distortion Temperature	95 °C	ISO 75-1	(0.45 Mpa)
Melt Temperature	115 °C	ISO 3146	
Processing Methods			
Injection Moulding			

Injection Parameters

Front Temperature	200 °C
Hopper Temperature	60 °C
Middle Temperature	190 °C
Mould Temperature	25 - 40 °C
Nozzle Temperature	190 °C
Rear Temperature	180 °C

Forms

Pellets

Appearance

Clear/Transparent

Notes

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.

Information in this document is based on our current knowledge and experience and can vary by batch. It does not relieve customers of the responsibility to carry out their own tests and experiments nor do they imply any legally binding assurance. Customers are responsible to determine their freedom to operate to ensure that their products do not infringe any intellectual properties. Emnandi Bioplastics Ltd assumes no obligation or liability for the information in this document.