

BIOMAT BIOPBS C313B is a bio-based polybutylene succinate (PBS) produced from polymerisation of bio-based succinic acid and 1,4-butanediol. Alike LDPE, BIOMAT BIOPBS C313B is soft and flexible semi-crystalline polyester with excellent properties suitable for injection moulding articles for general purpose.

Applications	Features
General Purpose	<ul style="list-style-type: none"> <li>Semi Crystalline</li> <li>High Heat Resistance</li> <li>Short Cycle Time</li> <li>Soft and Flexible</li> <li>Dimensional Stability</li> <li>Renewable Resource Content</li> <li>Good Processability</li> </ul>

Sustainability
Bio-Based Content 51%
Compostability Industrially Compostable

Physical Properties
Density 1.26 g/cm <sup>3</sup> 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 <sup>2</sup> 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.

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