

Technical Data Sheet

BIOMAT PLA A343B

A thermoplastic resin composed primarily of poly(lactic acid) (PLA) which is both renewable and industrially compostable. It is produced from the fermentation of sugar or corn to produce lactic acid, followed by polymerisation via the intermediate lactide. It has a considerably lower carbon footprint than fossil-fuel based plastics and can be both mechanically and chemically recycled.

This grade has been specifically designed for processing by injection moulding and suitable for applications such as stationery supplies, toys, and gardening tools. It is food contact acceptable.

Applications		Features
Stationery Supplies		Renewable Resource Content
Toys		Food Contact Acceptable
Gardening Tools		Compostable
Physical Properties		
Density	1.25 g/cm ³	GB/T 1033.1-2008
Melt Flow Rate	12 - 40 g/10min	GB/T 3682.1-2018 190°C/2.16 kg
Mechanical Properties		
Charpy Impact Strength	1 kJ/cm ²	GB/T 1043.1-2008
Shrinkage	0 %	ISO 294-4:2018
Tensile Elongation at Break	3 %	GB/T 1040.1-2018
Tensile Strength	50 MPa	GB/T 1040.1-2018
Thermal Properties		
Glass Transition Temperature	60 °C	GB/T 19466.2-200
Melt Temperature	160 °C	GB/T 19466.3-200
Processing Methods		
Injection Moulding		
Appearance		
Clear/Transparent		

Notes

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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