

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 generic grade, which is characterised by its excellent transparency and processability, is suitable for a variety of applications including 3D printing, films and fibres. It is food contact acceptable and can be readily processed by both extrusion and thermoforming and has a slightly higher melting temperature (170 - 180 °C).

Applications	Features
Thermoforming Applications	Renewable Resource Content
Laminates	Food Contact Acceptable
Fabrics/Textiles	Compostable
3D Printing	

Physical Properties

Density	1,25 g/cm ³	GB/T 1033.1-2008
Melt Flow Rate	2 - 12 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
Notched Izod Impact Strength	4 J/m	GB/T 1043.1-2008
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	170 - 180 °C	GB/T 19466.3-200

Chemical Properties

D-Content	1 %
-----------	-----

Processing Methods

Extrusion
Thermoforming

Appearance

Clear/Transparent

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.