

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 disposable tableware, stationery supplies, toys, and gardening tools. It is food contact acceptable.

Applications	Features
Stationery Supplies	Renewable Resource Content
Disposable Tableware	Food Contact Acceptable
Toys	Compostable
Gardening Tools	

### Physical Properties

Density	1.25 g/cm <sup>3</sup>	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 <sup>2</sup>	GB/T 1043.1-2008
Notched Izod Impact Strength [J/	4 J/m	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 - 170 °C	GB/T 19466.3-200

### Chemical Properties

D-Content	4 %
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### Processing Methods

Injection Moulding
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### Appearance

Clear/Transparent
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### 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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