

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.

Applications	Features
Sheet	Renewable Resource Content
Fabrics/Textiles	Food Contact Acceptable
3D Printing	Good Processability
Bi-Axially Oriented Film	Compostable
Thermoformed Products	

### Physical Properties

Density	1,25 g/cm <sup>3</sup>	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 <sup>2</sup>	GB/T 1043.1-2008
Flexural Modulus	3280 MPa	
Flexural Strength	106 MPa	
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	155 - 170 °C	GB/T 19466.3-200

### Chemical Properties

D-Content	4 %	
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### Optical Parameters

Haze	22,5 %	
Light Transmittance	86,1 %	

### 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.

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