

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 mechanically recycled from Ingeo™ 2003D which is a high molecular weight biopolymer grade that processes easily on conventional extrusion equipment. Extruded roll stock is readily thermoformable. This general purpose grade is suitable for a range of applications including 3D printing, food packaging and service ware.

Applications		Features	
Food Containers		Mechanically Recycled	
Food Packaging		Compostable	
Food Service Applications			
3D Printing			
General Purpose			
Physical Properties			
Density	1,25 g/cm ³		
Melt Flow Rate	8 g/10min		190°C/2.16 kg
Mechanical Properties			
Notched Izod Impact Strength	36 J/m		
Tensile Elongation at Break	6 %	ASTM D882	Machine Direction
Tensile Modulus	3500 MPa	ASTM D882	
Tensile Strength at Break	53 MPa	ASTM D882	
Tensile Strength at Yield	60 MPa	ASTM D882	
Thermal Properties			
Heat Distortion Temperature	60 °C		
Processing Methods			
Extrusion			
Injection Moulding			
Extrusion Parameters			
Melt Temperature	210 °C		
Forms			
Pellets			
Appearance			
Clear/Transparent			

Notes

Some properties have been derived from the original grade prior to mechanical recycling for illustration and may differ from the recycled grade.

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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