

# NaturePlast PLE 005

Polylactic Acid

NaturePlast

## Message:

PLA polymers (or Polylactic acid) are thermoplastic resins made from renewable vegetal resources and are certified as compostable in agreement with standards in use.

Some of our PLA grades are certified as GMO free.

PLA can be processed on standard equipments.

Markets : food packaging, cosmetics, horticulture, medical, technical parts...

Properties

Transparent, the most economical...

Thermal resistance, flexibility and barrier properties to improve...

GMO free PLLA

General Information			
Features	Barrier Resin		
	Compostable		
	Good Flexibility		
	Renewable Resource Content		
Uses	Cosmetics		
	Engineering Parts		
	Food Packaging		
	Lawn and Garden Equipment		
	Medical/Healthcare Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Calendering		
	Film Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)	2.0 to 10	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2690	MPa	ISO 527-2
Tensile Strain (Break)	4.6	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	23	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa,  
Unannealed)

51.0

°C

ISO 75-2/B

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

