

NaturePlast NPC 102

Polylactic Acid

NaturePlast

Message:

Compounds are blends of various bioplastic resins, additives and/or natural fibres in order to improve initial material properties.
The parameters that we attempt to improve are mechanical, thermal or transformation performances.
Markets : food or industrial packaging, cosmetics, horticulture, technical pieces, sport and leisure, aesthetic parts...
Properties
Improvement of flexibility, thermal properties, or impact resistance.
Flexible PLA

General Information	
Features	Good Flexibility
	Renewable Resource Content
Uses	Cosmetics
	Engineering Parts
	Food Packaging
	Industrial Applications
	Lawn and Garden Equipment
	Packaging
	Sporting Goods
Appearance	Translucent
Forms	Pellets
Processing Method	Film Extrusion
	Profile Extrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (170°C/2.16 kg)	11	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1570	MPa	ISO 527-2
Tensile Strain (Break)	79	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	160	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	48.0	°C	ISO 75-2/B

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