

Purac PLA Blend A

Polylactic Acid

Purac

Message:

Homo PLA: general purpose
PLA blends based on monomers from Purac offer:
Heat resistance up to 120°C (HDT B)
Good processing economics
Impact resistance comparable to ABS
Biobased content
Multiple end-of-life options
Existing commercial availability
Blend A: the key driver behind this improvement are PLLA homopolymers that have been nucleated with a small amount of PDLA homopolymers and a traditional nucleant (see blend A in the table below for more details).
The increased heat performance of blend A was obtained without adding significant amounts of filler.

General Information	
Additive	Nucleating Agent
Features	High Heat Resistance
	Homopolymer
	Nucleated
	Renewable Resource Content
Uses	General Purpose
Forms	Pellets

Processing Method	Injection Molding	
Physical	Nominal Value	Unit
Density	1.24	g/cm ³
Mechanical	Nominal Value	Unit
Tensile Modulus	3000	MPa
Tensile Stress	45.0	MPa
Tensile Strain (Break)	5.0	%
Impact	Nominal Value	Unit
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²
Thermal	Nominal Value	Unit
Heat Deflection Temperature ¹ (0.45 MPa, Unannealed)	105	°C
Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 220	°C
Mold Temperature	80.0 to 100	°C
NOTE		
1.	Flatwise	

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