

Purac PLA Blend B

Polylactic Acid

Purac

Message:

Homo PLA: improved modulus
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 B:

to
achieve
a
higher
modulus,
and
an
even
higher
temperature
resistance,
talc
was
added
to
blend
A
(see
blend
B
in
the
table
below).

General Information		
Filler / Reinforcement	Talc	
Additive	Nucleating Agent	
Features	High Heat Resistance	
	Homopolymer	
	Nucleated	
	Renewable Resource Content	
Forms	Pellets	
Processing Method	Injection Molding	
Physical	Nominal Value	Unit
Density	1.27	g/cm³
Mechanical	Nominal Value	Unit

Tensile Modulus	4000	MPa
Tensile Stress	42.0	MPa
Tensile Strain (Break)	17	%
Impact	Nominal Value	Unit
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²
Thermal	Nominal Value	Unit
Heat Deflection Temperature ¹ (0.45 MPa, Unannealed)	120	°C
Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 220	°C
Mold Temperature	70.0 to 100	°C
NOTE		

1. Flatwise

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