

NaturePlast NPC 203

Biodegradable Polymers

NaturePlast

Message:

Biocomposites are a set of materials consisting in a blend of a bioplastic resin (biobased and/or biodegradable) with natural fibres such as wood, hemp, bamboo or cellulose.

Biocomposites are mainly designed for injection molding applications but can also be used in extrusion molding or thermoforming.

Markets: cosmetics, horticulture, technical parts, sport and leisure, aesthetic parts...

Properties

Stiffness, good thermal and mechanical properties.

Visible fibres.

General Information			
Filler / Reinforcement	Filler		
Features	Biodegradable		
	Good Stiffness		
	Renewable Resource Content		
Uses	Cosmetics		
	Engineering Parts		
	Lawn and Garden Equipment		
	Sporting Goods		
Forms	Pellets		
Processing Method	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20 to 25	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1170	MPa	ISO 527-2
Tensile Strain (Break)	23	%	ISO 527-2
Flexural Modulus	940	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	24	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	110	°C	ISO 306/A

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