

# NaturePlast NP WF 001

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	Wood Fiber
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 <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13 to 23	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	3600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	11	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	48.0	°C	ISO 75-2/A

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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

