

BIOCOMPOSITES

General Properties

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.



NaturePlast

The natural evolution of plastic



Applications

Processing: injection molding, extrusion (profiles, sheets), thermoforming, etc.

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



Properties

- Stiffness, good thermal and mechanical properties.
- Visible fibres.

Grade	Natural fibre nature	Density	MFFI (g/10 min at 190°C ; 2.16 kg)	Flexion Modulus (MPa)	Tensile Modulus (MPa)	Tensile elongation at break (%)	Unnotched Charpy impact strenght (kJ/m ²)	Thermal property (°C)
ISO		1183	1133	178	527	527	179	75-2 or 306
<i>Injection</i>								
NP WF 001	Wood	1,27	13 - 23	3600	3400	3	11	48 (HDT A)
NP WF 003	Wood	0,94	7 (230°C 2,16 kg)	2100	2460	4	24	93 (HDT A)
NP WF 004	Wood	1,01	5,5	2700	2320	/	16	71 (HDT A)
NP WF 005	Wood	/	6,5	6300	7300	/	10	/
NP MF 001	Miscanthus	1,01	7 (230°C 2,16 kg)	3350	3850	4	17	115 (HDT A)
NP MF 002	Miscanthus	0,98	30 (230°C 2,16 kg)	2450	2700	3,5	21	91 (HDT A)
NP MF 003	Miscanthus	/	8	5000	7000	/	13	/
NP SF 001	Vine shoot	/	17	4600	3910	1,5	8	/
<i>Extrusion</i>								
NP WF 002	Wood	1,03	0,5 (230°C 2,16 kg)	3500	4400	2,2	13	/

Several others references are available; Please come back to us to get information