

BY-PRODUCTS

General Properties

Industrial companies try for years to add value more efficiently to their wastes or by-products. The use as a filler in a biopolymer matrix can be one of these valorization route for some of them.

Such materials are mainly dedicated to injection molding applications but can also be used in extrusion or thermoforming.



NaturePlast

The natural evolution of plastic



Applications

Processes: injection molding, extrusion, thermoforming.

Markets: packagings, horticulture, technical parts, sports and leisures, aesthetic parts, etc.



Properties

- Depends of the nature of the by-product.
- Natural aspect.

Grade	By-product nature	Density	MFI (g/10 min at 190°C; 2.16 kg)	Flexural modulus (MPa)	Tensile modulus (MPa)	Tensile elongation at break (%)	Unnotched Charpy impact resistance (kJ/m²)	Thermal resistance (°C)
Test ISO		1183	1133	178	527	527	179	75-2 ou 306
BIOPOLYESTERS BASED								
NPC 203	Olive stone	1,27	20 – 25	940	1170	23	24	110 (Vicat A)
NPC 204	Algae	1,33	>30	1300	1300	8	21	109 (Vicat A)
NPC 205	Leather	1,27	4	700	820	15	121	101 (Vicat A)
NPC 207	See shell	1,50	19	1300	1500	7	55	110 (Vicat A)
NPC 209	Cork	<1	0,5	580	600	11	16	108 (Vicat A)
NPC 210	Rice hull	1,15	17	1420	1670	5	13	107 (Vicat A)
BIOELASTOMERS BASED								
NPC 206	Leather	1,19	4	/	40	120	No Break	/
NPC 208	See shell	1,35	11	/	13	592	No Break	/
PLA BASED								
NPC 215	Leather	/	/	/	2900	7	27	50 (HDT B)

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