

BIOPOLYESTERS

General Properties

Biopolyesters commercialized by Natureplast are thermoplastic resins 100% biodegradable and compostable in agreement with standards in use.

Biopolyesters can also be partially biobased.

These biopolyesters can be processed on standard equipments.



NaturePlast

The natural evolution of plastic



Applications

Processing: extrusion (film, sheet...), thermoforming, injection molding, injection and extrusion blowing,...

Markets: bagging, film, food processing industry packaging, cosmetics, horticulture, medical, technical parts...



Properties

- Translucency, processing easiness.
- Performances close to polyolefins (PE and PP) in terms of thermal and mechanical properties.

Grade	Properties	Density	MFI (g/10min)	Optical property	Tensile Modulus (MPa)	(Tensile) elongation at break (%)	Unnotched Charpy impact strength (kJ/m ²)	Thermal property (°C)
ISO		1183	1133		527	527	179	75-2 or 306
Extrusion								
PBE 001	Standard	1,24	4,5	Translucent	290	>590	No Break	NC
PBE 003	Standard	1,26	4,5	Translucent	720	330	No Break	94 (HDT B)
PBE 003 BB	38% biobased	1,27	3	Translucide	780	330	No Break	89 (HDT B)
PBE 006	Standard	1,26	2-5	Translucent	85	>590	No Break	80 (Vicat A)
Injection								
PBI 001	Standard	1,26	3,5 - 6	Opaque	720	330	No Break	94 (HDT B)
PBI 003	Standard	1,25	15 -25	Opaque	730	330	No Break	94 (HDT B)
PBI 003 BB	38% biobased	1,26	20	Opaque	730	330	No Break	83 (HDT B)

NaturePlast

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