BIOPOLYESTERS

NaturePlast

The natural evolution of plastic

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.

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 strenght (kJ/m²)	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)

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