PHAs

General Properties

PHA-type polymers (Polyhydroxyalcanoates) are thermoplastic resins made from renewable vegetal resources, produced by bacterial sugar fermentation.

PHA can be processed on standard equipments.

PHA materials are biodegradable and compostable in agreement with standards in use.

NaturePlast

The natural evolution of plastic

Applications

Processing: extrusion (film, sheet, profile…), calendering, thermoforming, injection molding.

Markets: food packaging, horticulture, technical parts …

Properties

- Thermal resistance, flexibility and barrier properties higher than PLA. Opaque material.
- PHAs are quickly biodegradable.

Grade	Properties	Density	MFI (g/10min)	Optical property	Tensile Modulus (MPa)	Tensile elongation at break (%)	Unnotched Charpy Impact resistance (kJ/m²)	Thermal resistance (°C)
ISO		**1183**	**1133**		**527**	**527**	**179**	**75-2**
Extrusion								
PHE 001	Additived	1,25	5 (170°C)	opaque	855	146	101	47 (HDT B)
Injection								
PHI 001	Additived	1,25	15 (170°C)	opaque	860	4	45	45 (HDT B)
PHI 002	Standard	1,23	5 – 10	opaque	4200	3	5	134 (HDT B)
PHI 008	Standard	1,40	30	opaque	2800	4	17	137 (Vicat A)

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