

NaturePlast PHE 001

Polyhydroxyalkanoate

NaturePlast

Message:

PHA-type polymers (Polyhydroxyalkanoates) 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.

Markets : food packaging, horticulture, technical parts...

Properties

Thermal resistance, flexibility and barrier properties higher than PLA. Opaque material.

Some of PHAs are quickly biodegradable.

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General Information			
Additive	Unspecified Additive		
Features	Barrier Resin		
	Biodegradable		
	Compostable		
	Good Flexibility		
	Renewable Resource Content		
Uses	Engineering Parts		
	Food Packaging		
	Lawn and Garden Equipment		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Calendering		
	Film Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	5.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	855	MPa	ISO 527-2
Tensile Strain (Break)	150	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	100	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa,
Unannealed)

47.0

°C

ISO 75-2/B

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