

NaturePlast PHI 002

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.
Standard

General Information			
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	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	15 to 30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2950	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306/A

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