



Technical Data Sheet

技术数据表

Fully Biodegradable Raw Material

Beijing PhaBuilder Biotechnology Co., Ltd.

www.phabuilder.cn

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Fully Biodegradable Raw Material PHB

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Product Introduction:

The Fully Biodegradable Raw Material, PHB raw material series (Cat. No.: PB3000/PB3000G) is a fully biodegradable raw material synthesized by Beijing PhaBuilder Biotechnology Co., Ltd through open bio-fermentation and stored in the forms of powder (PB3000) or resin (PB3000G). Under the conditions of natural environment or industrial composting, this raw material could be converted into carbon dioxide, water, energy and bio-carbon within a specified period of time by microorganisms and enter the natural circulation. The material has high crystallinity and high rigidity, and its products could replace traditional petrochemical plastics to be widely used for the production of packaging materials, artificial bone-screws and drug carriers.

Typical applications:

The Fully Biodegradable Raw Material PHB is mainly used for the production of packaging materials, artificial bone-screws and drug carriers.

Packing:

Resins, 25kg/bag; Powder, 25 kg/bag

Performance:

The main performance indicators of Fully Biodegradable Raw Material PHB are as follows:

Biodegradable raw material PHB			
performance	index	unit	Test standards
Melting index (190° C, 2.16kg).	1	g/10min	GB/T 3682.1-2008
Moisture and volatiles	0.5	%	GB/T 2914-2008
Melting point	165	°C	DSC
Density	1.22-1.25	g/cm ³	GB/T 1033.2-2010
Ash content	≤ 0.30	%	GB/T 9345.1-2008
Tensile strength	32.5	MPa	GB/T 1040.2-2006
Nominal tensile strain at break	9.1	%	GB/T 1040.2-2006
Izod impact strength (23° C).	≥ 3	KJ/m ²	GB/T 1843-2008

Safety and operation:

Fully biodegradable Raw Material PHB products are safe and pollution-free, non-toxic.

Storage:

When transporting and storing, the temperature should not exceed 80 °C.

Storage conditions: dry, ventilated.

Shelf life: 23 °C, 2 years.

Use:

This Fully Biodegradable Raw Material PHB adopts sealed packaging; the powder can be used directly after opening or after blending with other materials; and the resins can be used directly after opening.

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