

Home | About us | Products | Sales Service | Contact us

Xinfu < Products

Products >> PBS -- Full Biodegradable Resin

- About us
- Products
- Sales Service
- Contact us

Contact us

Attn:Xinfu Marketing, Import & Export Dept.

Add:

No. 50 Qinshan, Jincheng,
Lin'an, Hangzhou, Zhejiang
311300, P.R. China.

+86-571-63807802
(Marketing)

+86-571-63759259

(Logistic)

+86-571-63759260

info@xinfupharm.com



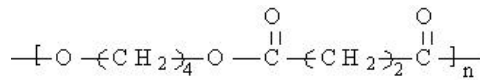
Poly (1, 4-butanediol Succinate) (hereunder PBS) is a kind of fully biodegradable macromolecular polymer that is synthesized from succinic acid and butanediol through a direct process of condensation polymerization. On specific conditions, this material can be finally decomposed safely and innocuously into simple compounds such as CO₂, H₂O, etc.

PBS has predominant characteristics such as good thermal stability, fine mechanical and processing performance. It can be molding processed in normal plastic fabrication apparatus. Because of its excellent integrated performance, it also can be blended with other fully biodegradable plastic materials to modify the property to satisfy all kinds of manufacturing requirements of plastic products.

Chemical Name: Poly (1,4-butanediol Succinate)

CAS No.: 25777-14-4

Structural Formula:



Quality Index: (Company Standard: Q/XF 004-2008)

No.	Items	Injecting Class	Extruding Class	Film Class
1	Appearance	Oyster white or pale yellow granula		
2	Density(20℃), g/cm ³	1.15~1.25	1.15~1.25	1.15~1.25
3	Melting point, ℃	110~120	110~120	110~120
4	Melt Index, g/10min	≥15	8~15	≤8
5	Tensile-strength at break, MPa, ≥	20	25	30
6	Elongation at break, %, ≥	200	250	300
7	Bending strength, MPa, ≥	20	20	20
8	Flexural modulus, MPa, ≥	300	350	400
9	Notched impact strength, kJ/m ² , >	4	5	6
10	Vicat softening temperature, ℃, ≥	101	101	101
11	Deflection Temperature under Load, ℃, ≥	80	80	80
12	Loss on Drying, %, ≤	0.50	0.50	0.50
13	Ash, %, ≤	0.50	0.50	0.50

Application: mainly used as basic material in the following fields

1. In packaging field, e.g. films, bags, boxes, cosmetics bottles, packing for electronic parts, etc.
2. In one-off implement field, e.g. disposable dining & drinking tableware, disposable medical articles, etc.
3. In agricultures field, e.g. agricultural films, delayed release materials for pesticide and fertilizer, etc.
4. In medical field, e.g. biomedical polymeric materials, etc.

Stability and Shelf Life: Stored in dry places with normal temperature and the shelf life of the original packaging is as long as 12 months.

Packaging: paper-plastic multiplex bags, 25Kgs/bag

Transportation: Avoid of being exposed to the sun and rain. Handle with care. Forbid to pack and transit with hazardous, noxious and other contaminative substances.

▲ TOP ▲ Print Version

©2008, Hangzhou Xinfu Science & Technology Co., Ltd.
| Powered By:TIANJI 浙ICP备09004604号