

XinFu PBS - Extrusion

Polybutylene Succinate

Zhejiang Hangzhou Xinfu Pharmaceutical Co.,Ltd.

Message:

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.

General Information		
Features	Workability, good	
	Thermal stability, good	
	Biodegradable	
Uses	Packaging	
	Mixing	
	Agricultural application	
	Medical/nursing supplies	
Forms	Particles	
Processing Method	Extrusion	
Physical	Nominal Value	Unit
Density	1.15 - 1.25	g/cm ³
Melt Mass-Flow Rate (MFR)	8.0 - 15	g/10 min
Ash Content		%
Heat Deflection Temperature	> 80	°C
Loss on Drying		%
Mechanical	Nominal Value	Unit
Tensile Strength (Break)	> 25.0	MPa
Tensile Elongation (Break)	> 250	%
Flexural Modulus	> 350	MPa
Flexural Strength	> 20.0	MPa
Impact	Nominal Value	Unit
Notched Izod Impact	> 5.0	kJ/m ²
Thermal	Nominal Value	Unit
Vicat Softening Temperature	> 101	°C
Melting Temperature	43.3 - 48.9	°C

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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