

Whitepaper MFR 4-8

Biobased PBS

Biobased Polybutylene succinate



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Grade

TH803S

Molecular Formula



Cas no

25777-14-4

Color

Natural white

Raw Material

- BDO (1,4-butanediol);
- Bio Succinic Acid.

Application

- Injection molding;
- Tableware and cutlery;
- Textile;
- fishing net;
- Engineering components
- Medical applications.
- Etc.

Package

- 25kg aluminum bag, each 20' container can load 17mt;
- 800kg aluminum big bag, each 20' container can load 16mt.



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Technical Data

Typical Property	Unit	Method	Result
Density	g/cm ³	ISO 1183	1.25
MFR (190°C,2160g)	g/10min	ISO 1133	7.5
Melting Point	°C	ISO 11357	114
HDT B/T _{ff} 0.45	°C	ISO 75	89
Color L			79
Color A			-3.0
Color B			5.5
Tensile Strength	MPa	ISO 527	42
Elongation	%	ISO 527	480
Moisture	%		≤0.06

Max Thickness of Film

68µm

Storage

Temperatures during transportation and storage should not exceed 40°C. Keep resin in dry and ventilated warehouse to prevent moisture. Avoid contacting with soil, water and sludge, and no exposure to direct sunlight and extreme temperature. The maximum shelf life is 2 years in ambient temperature of 23°C if the package has been tightly sealed.

Drying

It is recommended to pre-dry the material prior to getting the best processing performance. If the moisture of the resin is less than 0.05% pre-drying may not be needed. Typical drying conditions:2 hours at 80oC (175°F).

Processing Guide

TH803S can be independently used in the ordinary injection molding machine for processing, it can also be blended with PLA.



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Why PycnoPlast?

Providing **environmentally friendly polymer** solutions

PycnoPlast is continuously developing innovative plastic solutions and functionality improvement of polymer based products. We do this in close cooperation with our customers.



Biopolymers

Biopolymers are raw materials of the future for all current disposable plastic applications. Bringing plastic products back to nature after usage via biodegradable polymers.



Applications

Our biopolymer solutions are suitable for bags, films, thermoformed packaging, paper coating, injection molding and textile (nonwoven) applications.



Features

Main features of our biopolymers are: biodegradability, biobased, food approved and processable with conventional equipment.



Tailored solutions

PycnoPlast can develop and produce tailor made polymer solutions as masterbatch or compound to meet your specific requirements.



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Contact

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