

Whitepaper MFR25-30

Biodegradable PBS

Bioased Polybutylene succinate



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Grade

TH803S-Bio

Molecular Formula



Cas no

25777-14-4

Color

Natural white

Raw Material

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

Application

Injection Molding

Max Thickness of Film

68μm

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	25-30	Method
Density	g/cm ³	1.27	ISO 1183
MFR (190°C,2160g)	g/10min	25-30	ISO 1133
Carboxyl End Groups	Mol/mt	15-20	GB/T14190
Moisture	%	≤0.05	GB/T14190
Melting Point	°C	114	ISO 11357
Hundred-grain Weight	g/100 grain	1.6	/
Shore Hardness	D/15	66	ISO868
Tensile Strength	MPa	35	ISO527
Elongation	%	160	ISO527
HDT B/Tff0.45	°C	89	ISO75-1:2013&ISO75-2:2
Flexural Strength	MPa	34	ISO178:2010/Amd.1:2013
Flexural Modulus	MPa	600	ISO178:2010/Amd.1:2013
Izod Impact Strengt	KJ/m ²	5.5	ISO180:2000/Amd.2:2013

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.



PycnoPlast.com

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.



[PycnoPlast.com](https://pycnoplast.com)

Contact

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