

Gree Industry Co.,Ltd

Chemical Zone,Gaoxin District 255000 Zibo City,Shandong China

Tel:+86-531-88755607 Fax:+86-531-88755607

Biodegradable PBS

Bioased Polybutylene succinate

Grade

TH803S-Bio

Molecular Formula

$\text{HO}-(\text{CO}-(\text{CH}_2)_2-\text{CO}-\text{O}-(\text{CH}_2)_4-\text{O})_n-\text{H}$

CAS NO

25777-14-4

Color

Natural white

Raw Material

BDO (1,4-butanediol)

Bio Succinic Acid

Application

Film

Paper coating

Technical Data

Typical Property	Unit	4-8	Test Method
Density	g/ cm ³	1.27	ISO 1183
MFR (190°C,2160g)	g/10min	5-8	ISO 1133
Carboxyl End Groups	Mol/mt	15-20	GB/T14190
Moisture	%	≤0.05	GB/T14190
Melt Point	°C	114	ISO 11357
Hundred-grain Weight	g/100 grain	1.6	/
Shore Hardness	D/15	70	ISO868
Tensile Strength	MPa	41	ISO527
Elongation	%	280	ISO527
HDT B/Tff0.45	°C	90	ISO75-1:2013&ISO75-2:2
Flexural Strength	MPa	35	ISO178:2010/Amd.1:2013
Flexural Modulus	MPa	610	ISO178:2010/Amd.1:2013
Izod Impact Strengt	KJ/m ²	6	ISO180:2000/Amd.2:2013

Max Thickness of Film:

68 μ m

Package

25kg aluminum bag, each 20' container can load 17mt

800kg aluminum big bag, each 20' container can load 16mt.

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 80°C (175°F).

Processing Guide

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