

Whitepaper PBAT

# PBAT

Poly(butylene adipate-co-terephthalate)



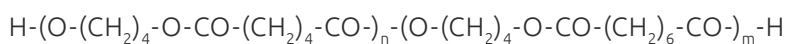
# PBAT

## Poly(butylene adipate-co-terephthalate)

### Grade

TH801T

### Molecular Formula



### Cas no

55231-08-8

### Color

Natural white

### Raw Material

- BDO (1,4-butanediol);
- PTA (terephthalic acid);
- Adipic Acid.

### Application

- Shopping bags;
- Mulching films;
- Paper coating;
- Labels;
- Other package materials.

### Package

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

## Technical Data

Typical Property	Unit	Method	Result
Density	g/cm <sup>3</sup>	ISO 1183	1.21
MFR 190°C, 2160g	g/10min	ISO 1133	2.5~4.5
Melting Point	°C	ISO 11357	116~122
Vicat A/50	°C	ISO 306	≥80
Tensile Strength	MPa	ISO 527	≥25
Elongation	%	ISO 527	≥400
Moisture	%		≤0.06

## Max Thickness of Film

61µm

## Storage

Temperatures during transportation and storage should not exceed 70°C. Keep resin in dry and ventilated warehouse to prevent moisture. Avoid contacting with soil, water and sludge, and exposing 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 0.3% pre-drying may not be needed. Typical drying conditions: 2 hours at 80°C (175°F).

## Processing Guide

TH801T is not suitable for direct film blowing, it is suggested to add slip additive like SiO<sub>2</sub> or CaCO<sub>3</sub>, it can also be blended with starch, PLA, PHA, cellulose etc.. Normally the extrusion temperature is 140°C -160°C, it is important to make sure the blowing machine starts from the lowest temperature. If the blowing performance is not optimized it is recommended to increase the temperature by 5°C.

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.



## **Features**

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



## **Applications**

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



## **Tailored solutions**

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

Contact

Feel free to  
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