



新疆蓝山屯河聚酯有限公司

XINJIANG BLUE RIDGE TUNHE POLYESTER CO., LTD.

NO. 316, BEIJING NANLU, CHANGJI CITY, XINJIANG, P.R. CHINA, ZIP: 831100

TEL: +86-994-2716865. +86-994-2713052

PBAT

Poly(butylene adipate-co-terephthalate)

Grade

TH801T

Molecular formula

$H-(O-(CH_2)_4-O-CO-(CH_2)_4-CO-)_n-(O-(CH_2)_4-O-CO-(CH_2)_6-CO-)_m-H$

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

Technical Data

Typical Property	Unit	Test Method	Result
Density	g/cm ³	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

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Elongation	%	ISO 527	≥400
Moisture	%		≤0.06

Max Thickness of Film:

61 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 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 SiO₂ or CaCO₃, it can also be blended with starch, PLA, PHA, cellulous 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.