

PBAT - Polybutylene adipate terephthalate

PRODUCT DESCRIPTION

PBAT is a biodegradable polymer. It is completely compostable according to various international standards and regulations like European standard EN 13432 and American Standard ASTM 6400, which will be eventually biodegraded to carbon dioxide, water and biomass, when metabolized in the soil or compostable under standard conditions. Our resins are also certified by Ok Compost, BPI, ABAM, JBPA, FDA, EU-Food Contact regulations, etc. Compared with other biodegradable plastics, PBAT has excellent mechanical performance, almost same as PP and PE. Good heat resistance and outstanding processability allow it to be variously processed on conventional blown film plants. It is one of the best biodegradable plastic in terms of processability in current market and can be blended with a great quantity of calcium carbonate and starch etc. to produce cost effective products.

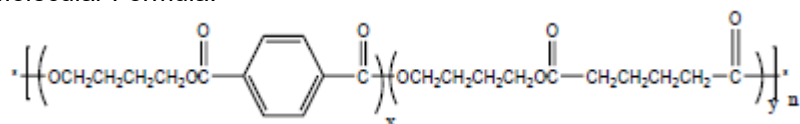
PRODUCT IDENTIFICATION

Material No.: PBAT-BG-I-0025-RSN

CAS-No.: 55231-08-8

Raw Materials: BDO (1,4 Butanediol), PTA (Terephthalic Acid), Adipic Acid

Molecular Formula:



APPLICATIONS

Film Bags • Mulching Films • Paper Coating • Labels • 3D Printing

PACKAGING

- 25 kg Aluminum Bag
- 800 kg Aluminium Big Bag

SHIPPING

ADR/RID: Not dangerous goods
 IMDG: Not dangerous goods
 IATA: Not dangerous goods



SPECIFICATIONS

PROPERTIES	SPECIFICATIONS
Appearance	Natural white
Mass Density	1.21-1.25 g/cm ³
Melt flow rate MFR 190°C, 2.16kg	2.5-4.5 g/10 min
Melting Point	116-122 °C
Vicat VST A/50	Min. 80 °C
Tensile Strength	Min. 20 MPa
Elongation at Break	Min. 500 %
Moisture	Max. 0.06 %

STORAGE & SHELF LIFE

To be stored in a cool and dark place. Shelf life is three years. Avoid contact with soil, water and sludge. The shelf life is two years, if the packaging 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 70°C (158°F).

PROCESSING GUIDE

PBAT 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 -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.

DISCLAIMER

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