INTRODUCTION

PBAT has excellent mechanical performance, almost same as PP and ABS, good heat resistance and outstanding process ability allows it to be variously processed on conventional blown film plants, it is the best biodegradable plastic in terms of process ability in current market and can be blended with a great quantity of calcium carbonate and starch etc. to produce cost effective products.

Our PBAT is completely degradable 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 degradable under standard conditions. Our resins are also certified by Ok Compost, BPI, ABAM, JBPA, FDA, EU Food Contact regulations, etc.

TECHNICAL PROPERTIES

Chemical Name: Poly(butylene adipate-co-terephthalate)  
Molecular formula: H-(O-(CH2)4-O-CO-(CH2)4-CO-)n- (O-(CH2)4-O-CO-C6H4-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 packaging materials

<table>
<thead>
<tr>
<th>Typical Property</th>
<th>Unit</th>
<th>Test Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
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</table>
PBAT
Technical Date Sheet (Version 2.0)

<table>
<thead>
<tr>
<th>Density</th>
<th>g/cm³</th>
<th>ISO 1183</th>
<th>1.21</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFR 190°C, 2160g</td>
<td>g/10min</td>
<td>ISO 1133</td>
<td>2.5~4.5</td>
</tr>
<tr>
<td>Melting Point</td>
<td>℃</td>
<td>ISO 11357</td>
<td>116~122</td>
</tr>
<tr>
<td>Vicat A/50</td>
<td>℃</td>
<td>ISO 306</td>
<td>≥80</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>MPa</td>
<td>ISO 527</td>
<td>≥25</td>
</tr>
<tr>
<td>Elongation</td>
<td>%</td>
<td>ISO 527</td>
<td>≥400</td>
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<tr>
<td>Moisture</td>
<td>%</td>
<td></td>
<td>≤0.06</td>
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</tbody>
</table>

MAX THICKNESS OF FILM:
61μm

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 ℃. 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:
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 140ºC -170ºC which depends on formula and processing machine, 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 5ºC

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