INTRODUCTION

PBS have 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 PBS 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: Polybutylene succinate
Molecular Formula: HO-(CO-(CH2)2-CO-O-(CH2)4-O)n-H
CAS NO: 25777-14-4
Color: Natural white
Raw material: BDO (1,4-butanediol) Succinic Acid
Application: injection molding tablewares and cutlery textile, fishing net, engineering components medical applications, etc

<table>
<thead>
<tr>
<th>Typical Property</th>
<th>Unit</th>
<th>Test Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>ISO 1183</td>
<td>1.25</td>
</tr>
<tr>
<td>MFR 190°C, 2160g</td>
<td>g/10min</td>
<td>ISO 1133</td>
<td>7-15 or 16-20</td>
</tr>
<tr>
<td>Melt Point</td>
<td>°C</td>
<td>ISO 11357</td>
<td>110-116</td>
</tr>
<tr>
<td>HDT B/Tff0.45</td>
<td>°C</td>
<td>ISO 75</td>
<td>≥80</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>MPa</td>
<td>ISO 527</td>
<td>≥40</td>
</tr>
<tr>
<td>Elongation</td>
<td>%</td>
<td>ISO 527</td>
<td>≥350</td>
</tr>
<tr>
<td>Moisture</td>
<td>%</td>
<td></td>
<td>≤0.06</td>
</tr>
</tbody>
</table>
PBS
Technical Date Sheet (Version 2.0)

MAX THICKNESS OF FILM:
68μm

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 ºC. 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 23ºC 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 80ºC (175ºF).

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

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