How to improve the performance of PLA packaging...

Bio-based and compostable packaging just got better! Biomax® Strong*, an additive that improves the performance of bio-based and compostable polylactic acid (PLA) packaging, improves toughness and reduces brittleness — without sacrificing product clarity!

...and still maintain environmental-friendliness!

Add Biomax® Strong modifier to your material composition...

Biomax® Strong is an ethylene copolymer designed to modify PLA and enhance its performance in packaging and industrial applications.

<table>
<thead>
<tr>
<th>Biomax® Strong Benefits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Increases Toughness</td>
<td>Improves Viscosity Stability</td>
</tr>
<tr>
<td>Reduces Brittleness</td>
<td>Improves Machineability and Cutting</td>
</tr>
<tr>
<td>Enhances Flexibility</td>
<td>Shows Good Contact Clarity</td>
</tr>
<tr>
<td>Improves Impact Strength</td>
<td></td>
</tr>
</tbody>
</table>

Available in the following grade:

Biomax® Strong 120 — For food packaging applications

*Patent Pending
**DuPont™ Biomax® Strong Improves Impact Strength/Toughness and Flexibility**

When repeatedly flexed, cast sheets modified with Biomax® Strong will withstand a significantly higher number of flex cycles.

Elongation at break is significantly increased with increased Biomax® Strong content up to a maximum that is reached at around 5–10 wt% addition rate.

**DuPont™ Biomax® Strong Improves Process Conditions of PLA**

Viscosity behavior is maintained, and melt flow stability improves significantly, even at low addition levels.

**DuPont™ Biomax® Strong at Low Levels Only Marginally Reduces Clarity of PLA**

<table>
<thead>
<tr>
<th>Modified PLA 2002</th>
<th>Amorphous Sheet Typical Haze</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internal haze, 15 mil thick sheet</td>
</tr>
<tr>
<td><strong>Biomax® Strong in PLA 2002, wt%</strong></td>
<td><strong>Haze, %</strong></td>
</tr>
<tr>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
</tr>
<tr>
<td>2</td>
<td>45</td>
</tr>
<tr>
<td>5</td>
<td>70</td>
</tr>
</tbody>
</table>

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