

# DuPont™ Biomax® Strong

## PLA TOUGHENING MODIFIER



**DuPont™ Biomax® Strong reduces PLA brittleness with as low as 2% wt addition.**

Splitting, cutting and slitting performance, and bending cast sheets improve significantly with just a small %-addition of Biomax® Strong.

### 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.

#### Biomax® Strong Benefits

- |                            |                                       |
|----------------------------|---------------------------------------|
| • Increases Toughness      | • Improves Viscosity Stability        |
| • Reduces Brittleness      | • Improves Machineability and Cutting |
| • Enhances Flexibility     | • Shows Good Contact Clarity          |
| • Improves Impact Strength |                                       |



Available in the following grade:

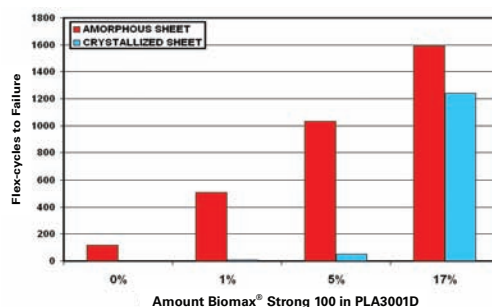
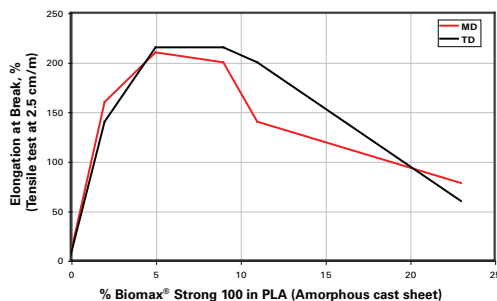
Biomax® Strong 120 — For food packaging applications

\*Patent Pending

## DuPont™ Biomax® Strong improves Impact Strength/Toughness and Flexibility

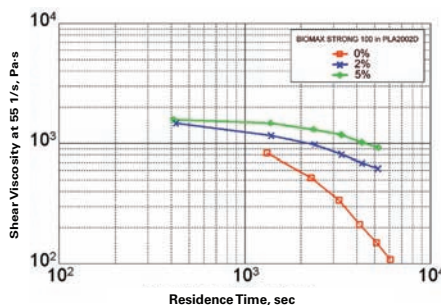
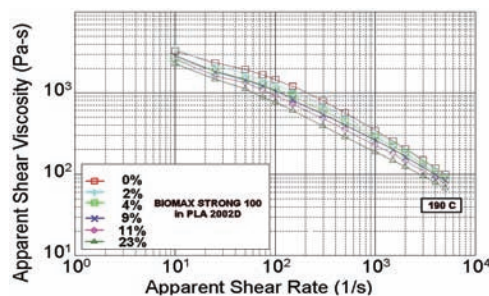
When repeatedly flexed, cast sheets modified with Biomax® Strong will withstand a significantly higher number of flex cycles.

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

Modified PLA 2002  
Amorphous Sheet Typical Haze

Internal haze, 15 mil thick sheet

Biomax® Strong in PLA 2002, wt%	Haze, %
0	5
1	25
2	45
5	70

For more information, please contact a representative in your region:

### AMERICAS

DuPont Packaging  
Barley Mill Plaza 26-2215  
Lancaster Pike & Route 141  
Wilmington, DE 19805  
Tel: +1 302 996-7911  
Tel: +1 800 438 7225  
Fax: +1 302 355 4056

DuPont do Brasil, S.A.  
Alameda Itapecuru, 506  
06454-080 Barueri, SP Brasil  
Tel: +55 11 4166 8000  
Fax: +55 11 4166 8736

### ASIA PACIFIC

DuPont China Holding Co, Ltd.  
Shanghai Branch  
399 Keyuan Road, Bldg. 11  
Zhangjiang Hi-Tech Park  
Pudong New District, Shanghai  
P.R. China (Postcode: 201203)  
Tel: +86 21 3862 2888  
Fax: +86 21 3862 2889

### EUROPE/MIDDLE EAST/AFRICA

DuPont de Nemours Int'l S.A.  
2, Chemin du Pavillon  
PO Box 50  
CH-1218 Le Grand Saconnex  
Geneva, Switzerland  
Tel: +41 22 717 51 11  
Fax: +41 22 717 55 00

[www.packaging.dupont.com](http://www.packaging.dupont.com)

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