



A recognized global leader in bioplastic technology



DaniMer Scientific focuses on the use of sustainably produced, renewable resources to improve people's lives and work. One of our goals is to reduce dependence on petroleum, enabling people and communities to benefit from environmentally friendly products.



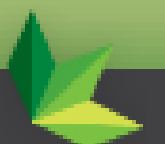
Located in Bainbridge, GA



Overview

DaniMer offers products for many end use applications:

- Flexible Films
- Extrusion coating
- Extrusion lamination
- Injection molding
- Thermoforming
- Energy Stimulation
- Adhesives
- Coatings
- Additives & Modifiers





A recognized global leader in bioplastic technology

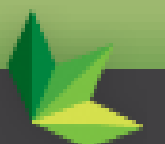




“The capabilities of partnerships in
developing new materials “

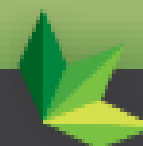
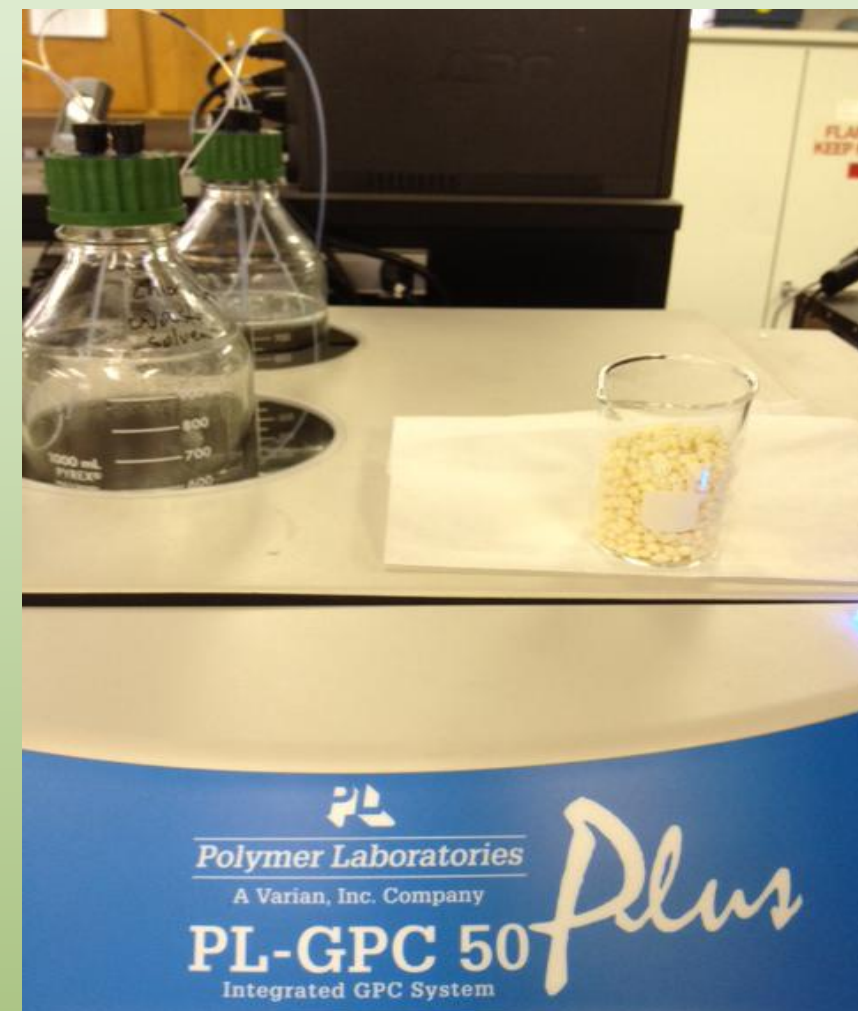
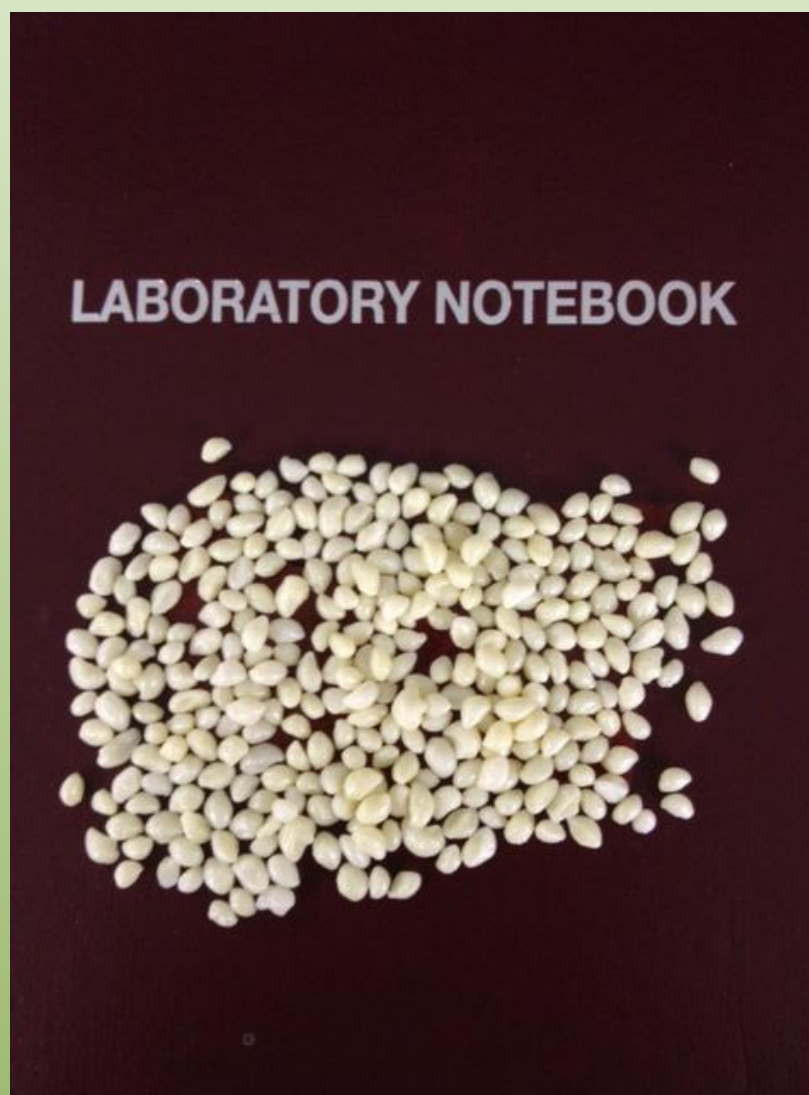
Renewable-Based Adhesives

- Area of packaging not previously addressed with regard to sustainability
- Constraints on supply of petroleum-based materials
- Unique functionality possible with polyester chemistry
- Compelling end-of-life option for recycled biopolymers



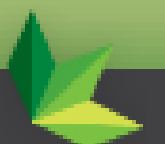
Renewable-Based Adhesives

Compete with legacy materials
in both performance and cost



Renewable-Based Adhesives

- **General Purpose Case & Carton Seal**
- **High Heat Food Service Ware Applications**
- **Freezer Carton Seal**
- **Dissolvable PET Bottle Label Adhesive**
- **Label Grade PSA**



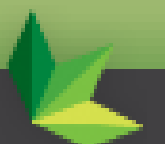
PET Label Adhesive Attributes

- Becomes soluble under PET washing conditions and yields PET free of residue
- Excellent adhesion to PET and PP films
- High renewable carbon content
- Designed for current application technology
- Passes overnight immersion test in cold water

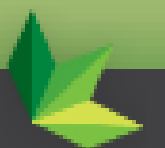


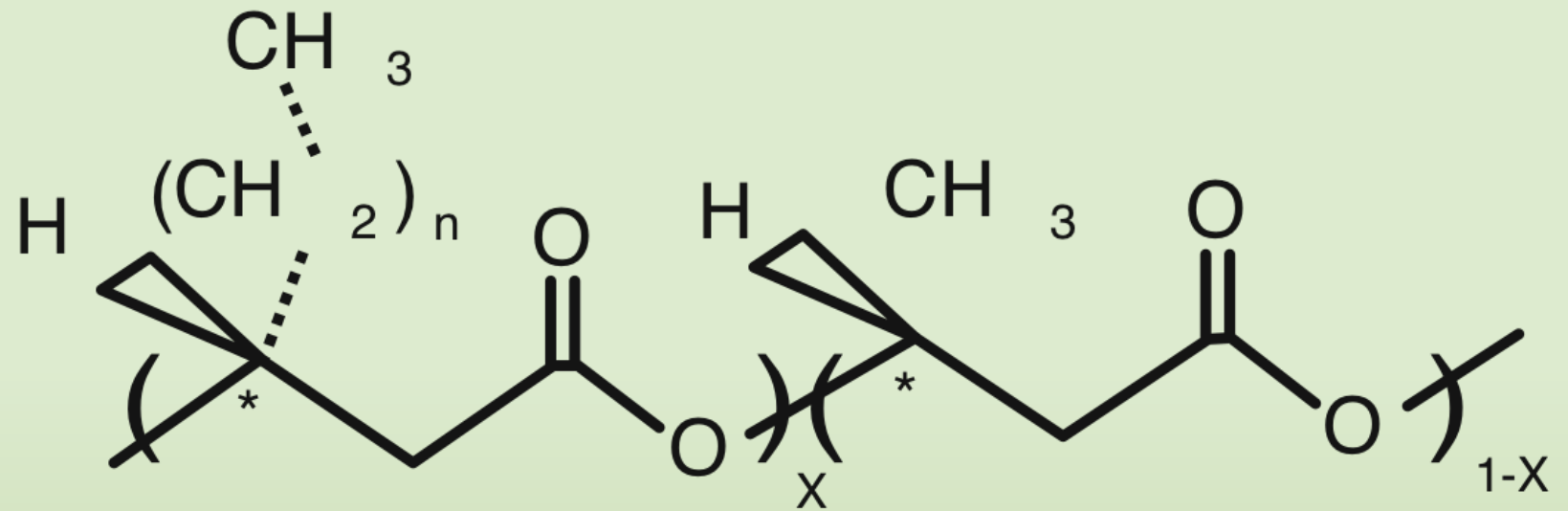
New Product Development

- Customer Focus
- Mutual Value
- Time Based
- Milestone Driven
- Cost Effective
- Sustainable



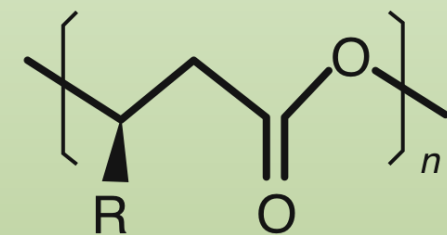
Meredian

The logo graphic consists of three green spheres of varying sizes connected by black lines. One large sphere is positioned below the 'e' in 'Meredian'. Another medium-sized sphere is positioned above the 'd'. A third, smaller sphere is positioned above the 'i'. The lines connect these spheres, creating a stylized molecular or network structure.



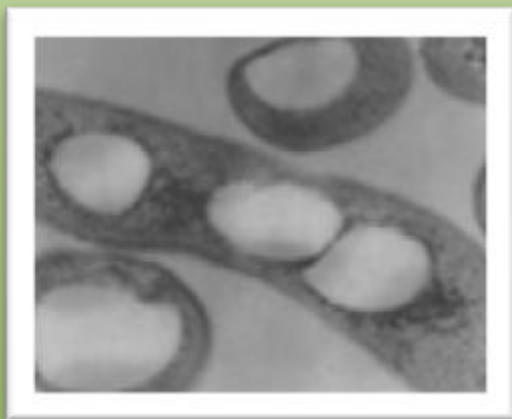
Polyhydroxyalkanoates (PHAs)

- Semicrystalline, biodegradable, thermoplastic polyester
- Produced by microorganisms

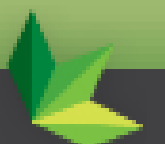


PHA	R Group
PHB	$-\text{CH}_3$
PHV	$-\text{CH}_2\text{CH}_3$
PHBV	$-\text{CH}_3, -\text{CH}_2\text{CH}_3$
PHBHx	$-\text{CH}_3, -\text{CH}_2\text{CH}_2\text{CH}_3$
PHBO	$-\text{CH}_3, -(\text{CH}_2)_4\text{CH}_3$
PHBD	$-\text{CH}_3, -(\text{CH}_2)_6\text{CH}_3$
etc.	

Meredian Polymers



Ralstonia eutropha containing
PHBD(C4C10) granules
(High resolution TEM 120,550x)



Located in Bainbridge, GA



A recognized global leader in bioplastic technology



Thank you!

www.danimer.com

