

DuPont Materials for Sustainable Packaging

DuPont Packaging Initiatives for Sustainable Solutions

**DuPont's
commitment to
bring sustainable
solutions to the
marketplace:**

Grow annual revenue from products that:

- Create energy efficiency
- Reduce greenhouse gas emissions

Invest in R&D on environmentally smart market opportunities

Double revenue from non-depletable resources.

Introduce at least 1,000 new safety products or services.

More information about DuPont's commitment to sustainability:
sustainability.dupont.com

More information about DuPont products and services for sustainable packaging:
sustainablepackaging.dupont.com

Renewable Materials

DuPont™ Biomax® renewably sourced materials -- including

- **Biomax® TPS:** thermoplastic starch (TPS) resins and sheets using Plantic® technology
- **Biomax® PTT:** polytrimethylene terephthalate (PTT) with polyester-like performance



DuPont™ Selar® VP breathable resins – controlled permeability ionomer resin
DuPont™ Pro-Cote® soy polymers -- protein-based binder for coatings and inks
DuPont™ Biomax® Thermal modifier – additive to enable higher thermal thresholds for PLA packages
DuPont™ Biomax® Strong modifier -- for thinner, less-brittle PLA packages
(an enabler for PLA - not RS on its own)

End-of-Life Alternatives

DuPont™ Biomax® TPS – thermoplastic starch (TPS) resins and sheets using Plantic® technology, which is industrial and home compostable
DuPont™ Elvano® polyvinyl alcohol – water-soluble material for dissolvable film or pouches, and for repulpable coated paperboard
DuPont™ Fusabond® compatibilizers – to enable the reuse of mixed plastic waste streams and multi-layer structure waste

Material Reduction Solutions

DuPont™ Surlyn® skin packaging resins – for clear, secure films that can replace bulky clamshells or blister packs
DuPont™ Surlyn® super stiff resins – to match strength, performance and desired tactile feel in downgauged packaging films
DuPont Teijin Films™ Mylar® ECO films – lidding films for containers utilizing renewable materials
... plus a variety of other specialty ethylene copolymers solutions

GHG and Energy Savers

DuPont™ Cyrel® FAST -- for solventless flexographic plate-making, with lower energy consumption and reduced GHG emissions
DuPont™ Appeel® lidding resins -- to replace solvent-based lacquers and provide strong, peelable lidding seals
DuPont™ Biomax® Strong modifier – provides process energy reductions during PLA processing (lowers extruder torque requirements)
DuPont™ Biomax® TPS – lower material production GHG's than standard petroleum-based alternatives



The miracles of science™

DuPont™ Renewably Sourced Materials contain a minimum of 20% renewably sourced ingredients by weight. Most DuPont™ Renewably Sourced Materials listed here contain 50% or higher amounts.

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