

At Printpack, sustainability involves both process and product.

Process initiatives that have always been a part of our operating philosophy include:

- ↗ Use of pollution control equipment that exceeds air quality standards for plant emissions
- ↗ Waste reduction programs aimed at increasing production efficiency and reducing the amount of wastes requiring disposal
- ↗ Materials down gauging to reduce the consumption of raw materials and the amount of material requiring post consumer disposal
- ↗ Energy conservation efforts
- ↗ Production and office waste recycling programs
- ↗ Toxic material reduction program
- ↗ Implementation of solvent-less technologies

Product initiatives include sustainable materials investigation and evaluation:

- ↗ Material Investigation (fully sustainable as well as hybrid solutions)
- ↗ Renewable: Paper, PLA, Cellulose, Bio-materials
- ↗ Degradability via additive systems
- ↗ Barrier primers and coatings
- ↗ Laminating adhesives & resins

Natura™

In response to the growing market interest and our ongoing sustainability efforts, Printpack has established **Natura™** – an umbrella family of sustainable processes and packaging structures.

Printpack's strategy includes the development and use of a portfolio of sustainable structures using renewable and compostable components. Also included is the identification and development of source reducing packaging systems such as retort and aseptic plastic packaging and refill systems for rigid containers.

Printpack Current Capabilities

- Able to commercially print, laminate, metallize and perforate available sustainable films.
- Able to custom design sustainable structures for customer specific applications. Design will consider both 100% and partially sustainable structures.
- Able to commercially supply sustainable die cut lid stock and roll stock for F/F/S applications

PRINTPACK'S SUSTAINABLE PACKAGING MISSION

To be recognized as a **responsible** leader in the design and development of **packaging** and operational **processes** that promote a more sustainable **business proposition** for us and our customers.

MEMBER OF



**SUSTAINABLE PACKAGING
COALITION**



USEPA Energy Star
Partner



Flexible Packaging
Association

Packaging
Less Resources. Less Footprint.
More Value.™

FPA Sustainability Task Force
FPA End-of-Life Working Group

PRINTPACK TARGET MARKETS

Confectionary

Commercial Ready:

- 120ga Cellulose Film/Ink/Adh/90ga MET Cellulose Film/Registered Cold Seal
- 90ga Cellulose/ink/adhesive/1.0mil mPE
- 80ga OPLA/ink/adhesive/1.0mil mPE
- Application: bag lamination

Benefit: ↗ Films are made from renewable resources

Snacks/Bakery

Commercial Ready:

- 80ga OPLA/Ink/PE or Adh/Sealant Film
- Matte OPV/80ga OPLA/Ink/PE or Adh/Sealant Film
- Ink/20# or 30# Greaseproof Paper/PE/Sealant Film

Shrink Labels/Sleeves (PLA)

Commercial Products:

- Tamper evident shrink bands
- Promotional printed sleeves for multi-packs
- Full sleeve printed labels
- Printed labels

Benefits: ↗ Industrially Compostable ↗ Excellent Clarity
↗ Excellent Shrinkage (up to 75%) ↗ Bio-based Resin

Lidding For PLA Trays

Commercial Ready:

- 48gaPET/Ink/Adh/80ga OPLA – with microperforation
- Ink/160ga OPLA – with microperforation

Both partial and fully sustainable lid stock have been developed to facilitate conversion of Wal-Mart's APET trays to PLA.

Fresh Produce

Commercial Ready:

- 80ga OPLA/Ink/Adh/80ga OPLA – with microperforation
- 90ga Cellulose Film/Ink/Adh/80ga OPLA – with microperforation

Benefits: Made from Renewable Resources
↗ Gloss ↗ Clarity ↗ Controlled Permeability

