## BREAKING DOWN YOUR BIODEGRADABLE PACKAGING OPTIONS

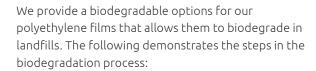
## WE MAKE IT EASY TO CHOOSE THE RIGHT BIODEGRADABLE PACKAGING OPTION

We offer several biodegradable packaging options:

- Polyethylene blends extruded by Emmerson Packaging
  - Roll stock
  - SmartPack™ (roll stock and pre-made stand up pouch)
- PET/PE lamination
  - Roll stock
  - Pre-made pouches and quad bags

Typical property values for standard (non-biodegradable) packaging and its biodegradable counterpart are virtually identical. This means that there is no reduction in efficiency as a result of the biodegradable status. The transition between the two structures is seamless at every stage of production.

## HOW BIODEGRATION WORKS



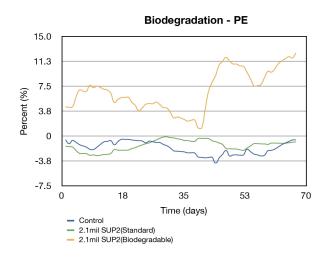
- Our biodegradable packaging is completely shelf-stable, and only degrades in the unique conditions of a landfill, even if the contents of the package are moist
- Once in a microbe-rich environment like a landfill, the package attracts microbes to the surface
- A layer, rich in microbes and moisture, forms on the surface of the package
- Accumulates on the surface expand the polymer molecules and give the microbes access into the film molecules
- The microbes degrade the packaging into methane, carbon dioxide and inert humus (which makes the soil richer)
- During this process, the microbes attract more microbes to speed up the biodegradation process



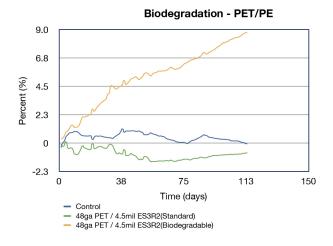
12 Tupper Blvd., Amherst, Nova Scotia Canada B4H 4S7

## **TESTING RESULTS**

our biodegradable file structures have been fully tested to verify that the film is biodegrading compared with its non-biodegradable counterpart. Third-party testing was conducted according to ASTM D5511. The results confirm that both the unsupported PE and the PET/PE lamination are biodegrading at rates that comply with ASTM D5511.



2.1mil PE testing confirms 12.5% biodegradability after 67 days.



48ga PET/PET at 4.5mil testing confirms 8.8% biodegradability after 113 days.

Emmerson Packaging has biodegradable options that allow for a seamless transition for your current packaging without sacrificing appearance, recyclability, efficiencies during production, or performance and integrity at any point throughout the life of the product.

Contact us today to learn more about your biodegradable packaging options.







