



SUSTAINABILITY

FLEXIBLE PACKAGING SUSTAINABILITY BENEFITS

Flexible packaging offers a number of sustainability benefits throughout the entire life cycle of the package when compared to other packaging formats including:

- Material/resource efficiency
- High product-to-packaging ratio
- Reduced materials to landfill
- Lightweight/source reduction
- Transportation benefits due to inbound format and lightweight nature
- Beneficial life cycle metrics
- Food shelf life extension

FLEXIBLE PACKAGING COMPARED TO OTHER PACKAGING FORMATS – IN USE



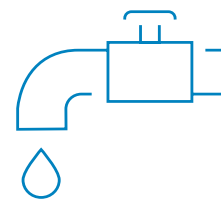
CARBON IMPACT

A rigid PET container for laundry detergents emits +726% more greenhouse gases than a flexible pouch with a zipper.



FOSSIL FUEL USAGE

A rigid pail for cat litter packaging consumes +1,429% more fossil fuel than a flexible bag.



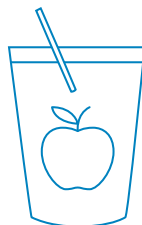
WATER USAGE

A HDPE bottle for motor oil packaging consumes +513% more water than a flexible pouch with a fitment.
A steel can for packaging coffee consumes +1,605% more water than a flexible pouch.



MATERIAL TO LANDFILL

+31% more thermoformed tubs for food packaging end up in landfill compared to a flexible pouch.



PRODUCT TO PACKAGE RATIO

A single serve juice flexible pouch efficiently uses packaging with a product to package ratio of 97% compared to a can.

INNOVATIVE PACKAGING SOLUTIONS FROM PRINTPACK

Printpack develops innovative packaging solutions that deliver a distinct advantage at the shelf, strengthen brand identity in the minds of consumers and help brand owners optimize speed-to-market strategies. Packaging innovation plays a critical role in influencing the way consumers value, choose, and use products.

RENEWABLE

- As close to a drop-in for bio-resins as we can get right now
- Blown: good choice for LDPE and LLDPE and okay choice for HDPE
- Some cases up to 85% renewable content – depends on price limitations by customer

RECYCLABILITY

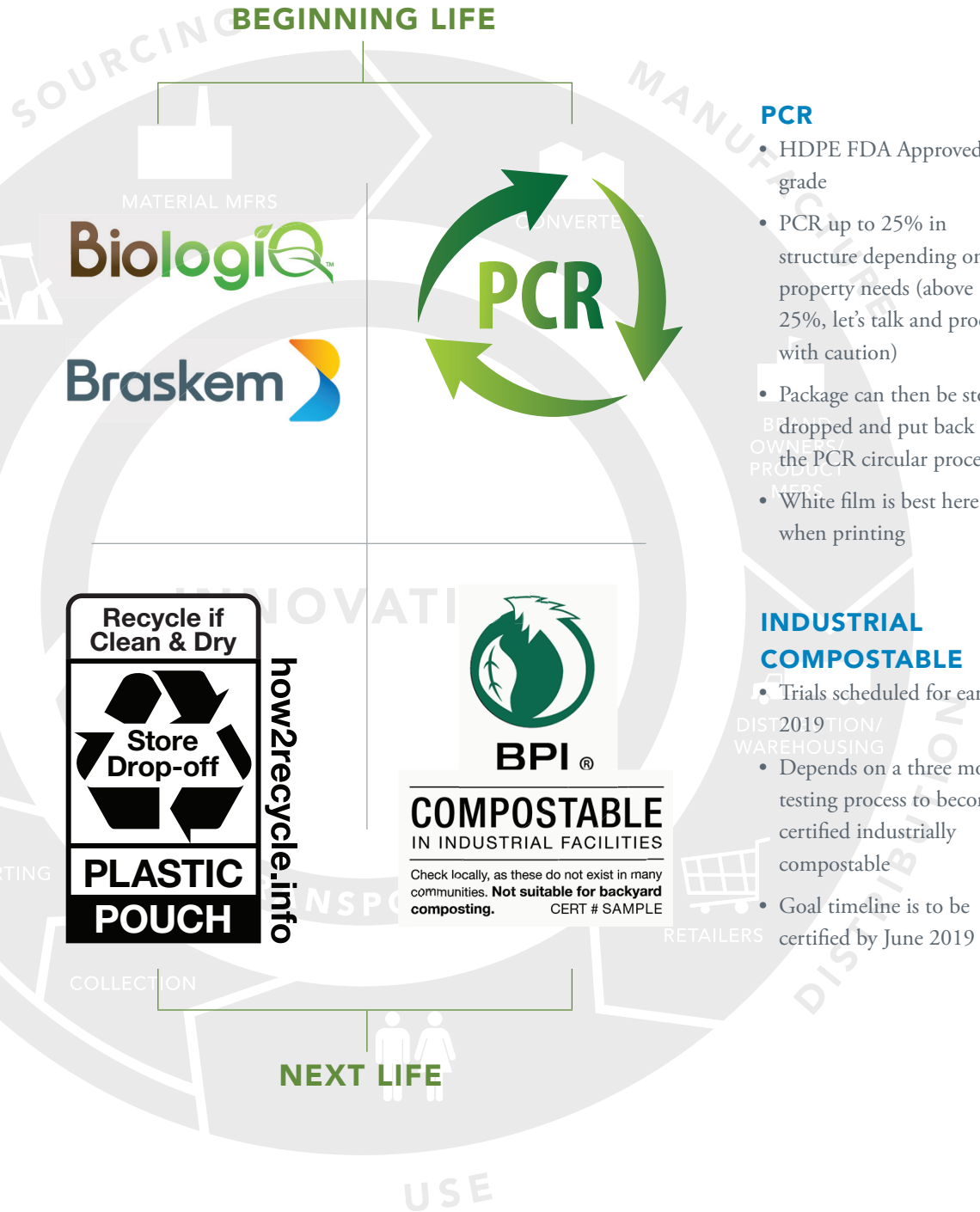
- Work closely with How2Recycle and we have pre-certified specs – easy qualification for customer
- Store drop-off recyclable that goes into the PCR process
- MVTR/OTR specs can be a challenge

PCR

- HDPE FDA Approved grade
- PCR up to 25% in structure depending on property needs (above 25%, let's talk and proceed with caution)
- Package can then be stored and put back into the PCR circular process
- White film is best here when printing

INDUSTRIAL COMPOSTABLE

- Trials scheduled for early 2019
- Depends on a three month testing process to become certified industrially compostable
- Goal timeline is to be certified by June 2019



Contact a Printpack representative regarding your specific packaging application.



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