



The Sustainability Journey So Far... Then to the Future



1. The Starting Point

Rigid metal

Glass

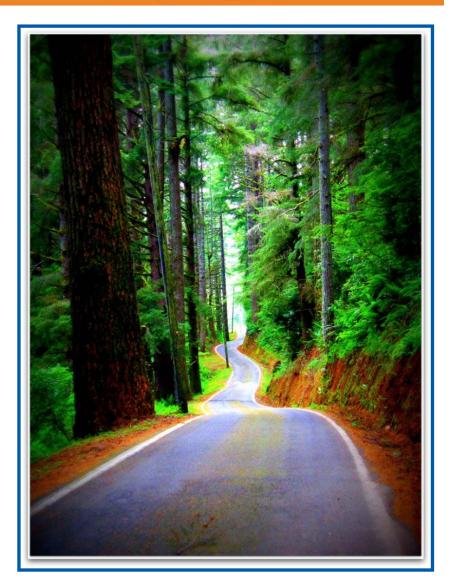
Latterly plastic containers

2. The First Step to Sustainability

Flexible packaging with plastics & aluminum foil

3. The Next Step to Sustainability & Eco-Friendly Packaging

Flexible packaging with bioplastics



The Way We Were. And, Still Are to Some Extent.



Coffee in a metal can, glass jar or rigid plastic container?



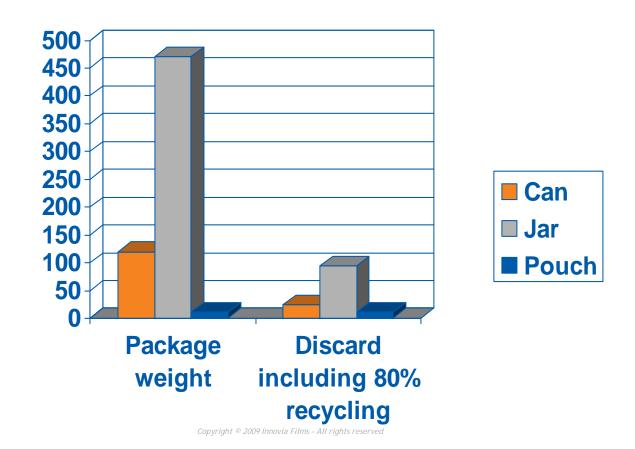
The metal can, glass jar and rigid plastic container are recyclable.

So, are they the most sustainable?

The Reality Check



The discarded weights are higher for rigid packaging, even with an 80% recycling level of the rigid packages.





~And, Some Other Issues to Consider...

Increased weight to transport to and from the roaster results in poorer distribution efficiencies

Poor utilization of volume in transportation to and from the roaster results in poorer distribution efficiencies

Both these increase the Carbon Footprint!

Add to this breakages with glass & loss of product





So, Where Are We Headed?

The change to flexible packaging began some time ago. Today, many high-end gourmet coffees as well as every day coffees are in flexible packaging.









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Flexible Packaging: What Are the Benefits?



- 1. Lower packaging to product weight ratio
- 2. Lower cost packaging
- 3. Reduced transportation charges throughout the supply chain
- 4. Lower packaging waste to landfill
- 5. Lower labor required to package the product
- 6. Product quality has not been compromised
- 7. Visual impact enhanced to a ultra high level

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So, Any Downsides?



Consider

Sourced with high levels of oilderived materials of which reserves are reducing

Complex laminates not easily disposed of other than landfill

Municipalities are looking to divert from landfills

Possible aluminum foil shortages as the BRIC economies grow again



Where Do We Aspire to Be?

Sustainable Packaging?

Eco-Friendly Packaging?

Ease of disposal Packaging?

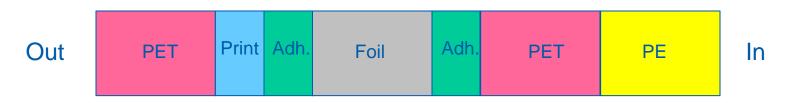
The solution is close with the use of bio-laminates





Comparison of Current & New Structures

Existing Flexible Packaging Structure



WVP 0.005 $g/m^2/day$ OTR 0.005 $cc/m^2/day$ Seal >2000g(f)/in

Bio-Laminate Flexible Packaging Structure



WVP 3.72 $g/m^2/day$ OTR 0.23 $cc/m^2/day$ Seal >2000g(f)/in



What Benefits Do Bio-Laminates Bring?

Sourced from renewable & sustainable resources

Reduction of carbon foot print

Environmentally friendly waste disposal including composting & anaerobic digestion

No net addition of CO₂ to the atmosphere when clean incineration used for disposal

Simplified disposal path as more municipalities compost food waste

After use of packaging for food scrap collection in the kitchen instead of purchasing compostable bags

An opportunity to market your organization's

"Green Credentials"

