

## SUSTAINABLE PACKAGING



## **DEFINITION OF SUSTAINABILITY**

Sustainability in packaging refers to **designing**, **producing**, and **using** packaging in a way that **minimizes** its environmental impact while still meeting functional requirements like product **protection**, **safety**, **convenience and** 

hygienic standards.



#### Circularity

Made from recycled content and recyclable back into products of the same quality. i.e., food packaging back into food packaging – tray-to-tray.









# EXTENDED PRODUCER RESPONSIBILITY (EPR) REGULATIONS

- Focus on practical implementation of sustainability drivers.
- Area/Country specific.
- ERP levies will be based on recyclability.

#### **IMPLICATION FOR EXPORTERS**

**Ensure cross-border compliance.** 











## **KEY DRIVERS OF SUSTAINABILITY**

Ensures materials can be **recovered** and **reused**, reducing landfill waste and resource extraction.



Recycled Content

Decrease the dependance of **virgin** materials and lower the **carbon** footprint.

Minimize dependance on **non-renewable** materials.

Renewability

Reduce/ Reuse Optimize packaging over the **life cycle** of packaging.

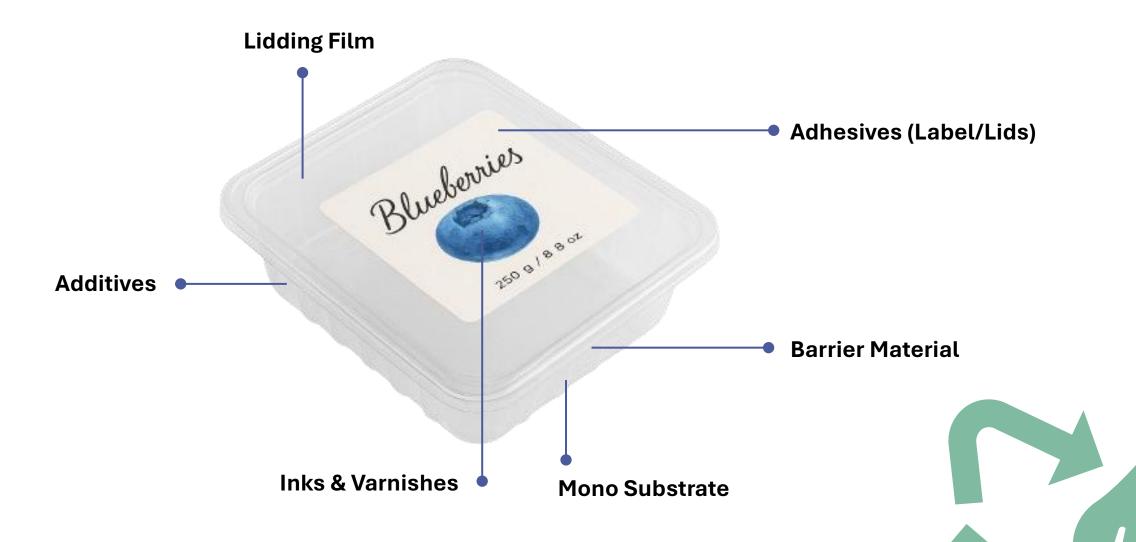








## **RECYCLABILITY**









## RECYCLED CONTENT

#### WHAT IS PCR (POST-CONSUMER RECYCLING)

Packaging materials are only considered post-consumer once they have been in the hands of the end user, reached the end of their intended use, and are regarded as waste. Post-consumer packaging is collected through kerbside programs and other recovery systems, then sorted and processed for recycling. Where possible, these materials are converted back into food-grade recycled content, allowing them to be used again in the production of new food packaging.

3<sup>rd</sup> party audits to confirm the PCR content and certification to support these audits of PCR content – currently no laboratory testing methods to determine PCR.

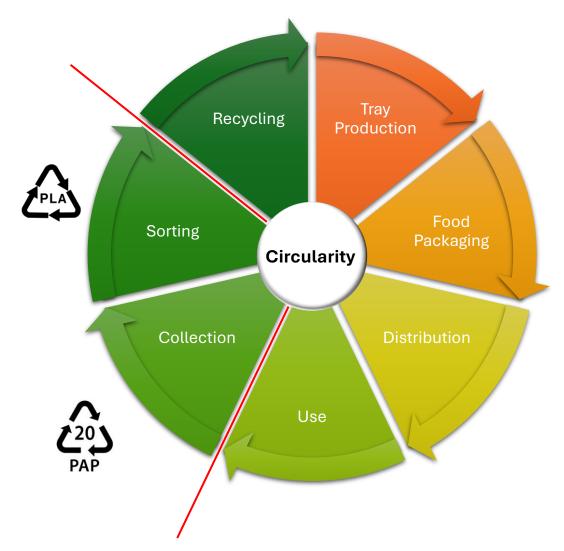








## RENEWABILITY



- **Compostable** (heat, oxygen, humidity)
- **Bio-degradable** (contamination of waste stream)
- Post Consumer Recycle rates (collection rates depends on economic value)









## REDUCE/REUSE

- Fill Rates.
- Double/Triple layers.
- Hygiene (Up/Down Cycle)











## SUBSTRATE VS SUSTAINABILITY

**Best practice** choice depends on factors such as:

- Cost
- Retail Conditions (Moisture/Protection)
- Value Perception

No single substrate is inherently more sustainable than another in the long run. **Sustainability depends on context** - cost feasibility, product protection under retail conditions, and consumer value perception. The best packaging choice is the one that delivers **optimal protection with minimal total environmental footprint**, not just the one that looks "greener" in isolation.

Base packaging criteria on actual information suited for specific applications.













## PET – MATERIAL OF CHOICE FOR BERRY PACKAGING

**PET** plastic is the preferred packaging for blueberries because it provides excellent product **visibility**, **durability**, and **protection** while being **lightweight** and **fully recyclable**, ensuring both freshness and **sustainability**.

Majority of blueberries are packed in PET (Heatseal, Clamshell or tubs with lids)

#### Heatseal



Clamshell





Tubs/Lids





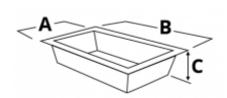






## **DESIGN FOR RECYCLING**

What can producers/packers of blueberries do to achieve better consumer acceptance and recycle rates on PET packaging and be ERP compliant?



Increase Pack Size



Reduce Weight (Minimum gauge)



Labels Water soluble/detachable



**MONO Materials** 



Post-Consumer Recycle









