Alternative Packaging Materials

British Sandwich Association
Zoe Larkins

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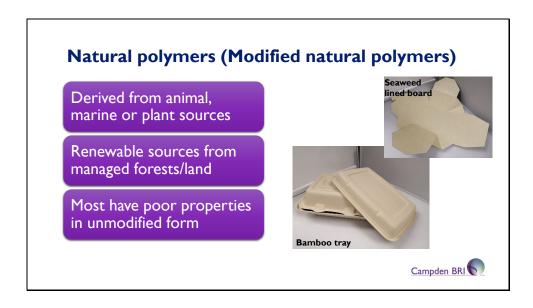
Driving forces

- Public perception
- Retailers
- Global circular economy initiatives i.e., Ellen MacArthur Foundation and WRAP
- Government legislation i.e., plastic tax
- Environmental factors



Alternative materials Biodegradable Compostable Natural polymers Modified natural polymers Bio-based polymers Microorganisms + GM bacteria Recycled Campden BRI

Biodegradable- capable of being broken down by living organisms Compostable- break down of organic waste to create compost – EN13432 Campden BRI	Compostable & Biodegradable	
	Biodegradable- capable of being broken down by living organisms	
Campden BRI	Compostable- break down of organic waste to create compost – EN13	432
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Bio-based polymers Derived from plant sources and biomass Renewable sources or waste streams Plant based sources would have poor properties in unmodified form Campden BRI

Functionality of alternative materials Concerns identified relating to sourcing and using alternative materials

Ovenability

Chilled/frozen storage

High temperature in-pack processing

Performance

Usability

Limited knowledge of alternative materials

Hygiene of materials

Sealibility

Clarity

Appearance

Barrier properties

Shelf life

Strength

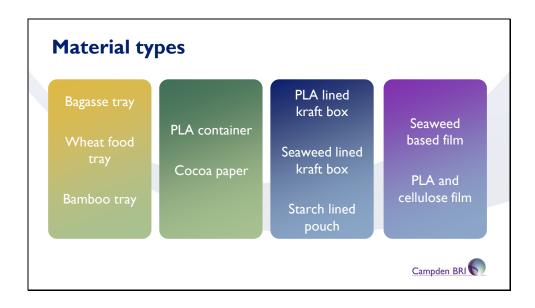
Appeal

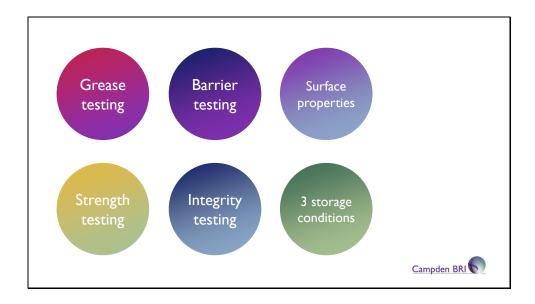
Grease resistance

Relevant testing









Project Results

- Possible to apply the standards to the alternative materials.
- Storage conditions affected results.
- Highlighted importance of understanding the intended use and expectations.



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