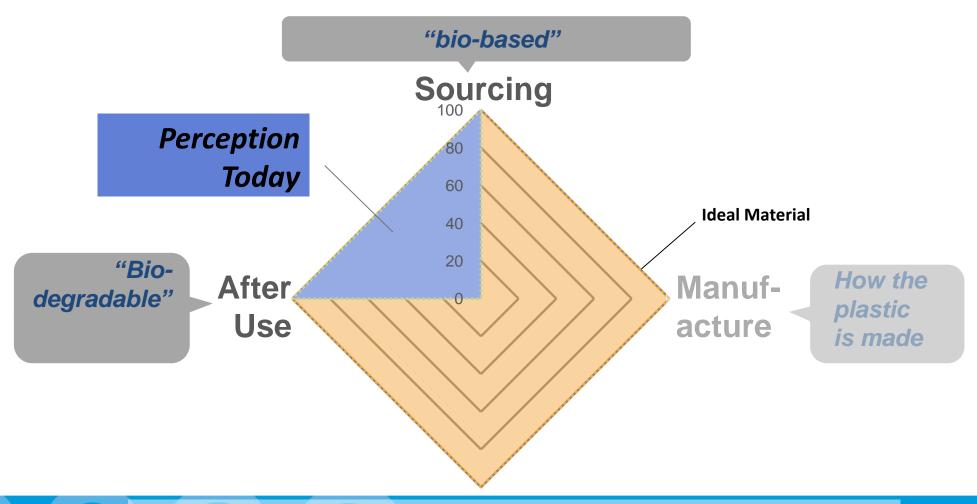


Ingeo PLA Applications

Ian Toh Commercial Director, AP June 28, 2019

Bioplastics – until now – have only been seen as biobased, or "biodegradable"

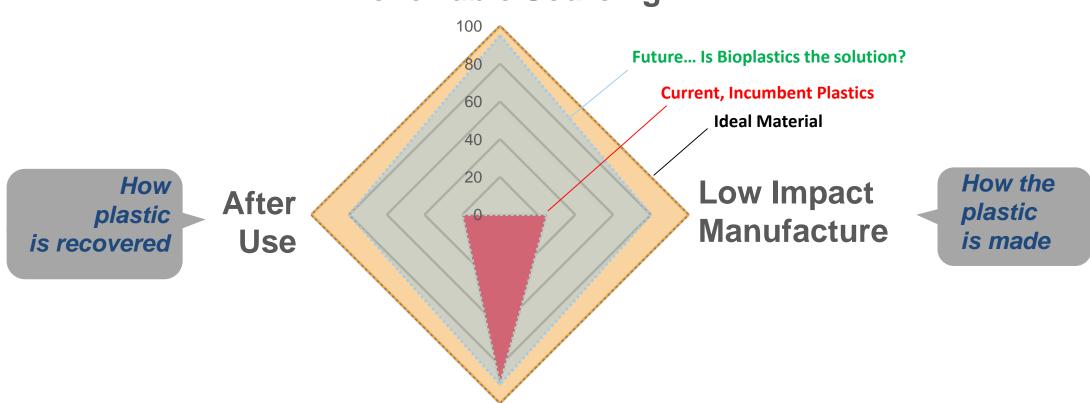




The Plastics Industry is rethinking itself from a Circular Economy Perspective

What the plastic is made from...

Renewable Sourcing



Use



Ingeo in Use





















Established Portfolio Of Certified Compostable Ingeo Products





Fully Functional, Compostable, Packaging

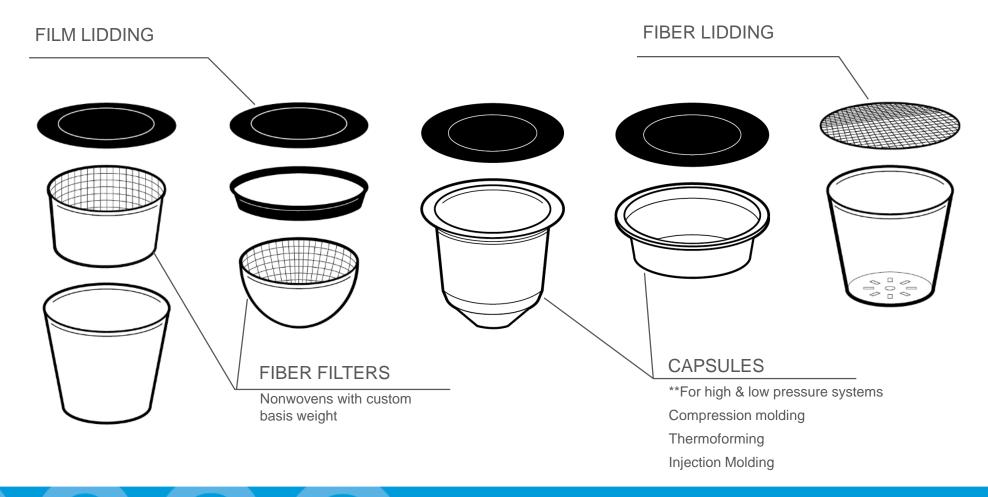


designed for organics recovery

The Composters want their coffee grounds back...



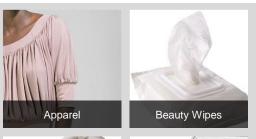
We're designing functional Ingeo materials to perform in multitude of capsule designs & components





Fibers Nonwoven Global Market Participation

Beauty & Household







Medical & Hygiene Food & Beverage







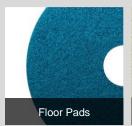






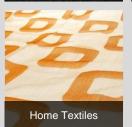


Building & Construction









Carpet

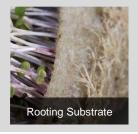


Landscape & Agriculture











BRITAIN'S TEA HABIT HAS A **PLASTIC PROBLEM**

By Rosie Spinks | February 19, 2018

www.nonwovensnews.com

Converting the 'Cuppa'

Consumers are putting the pressure on tea companies to make a simple sustainable switch.

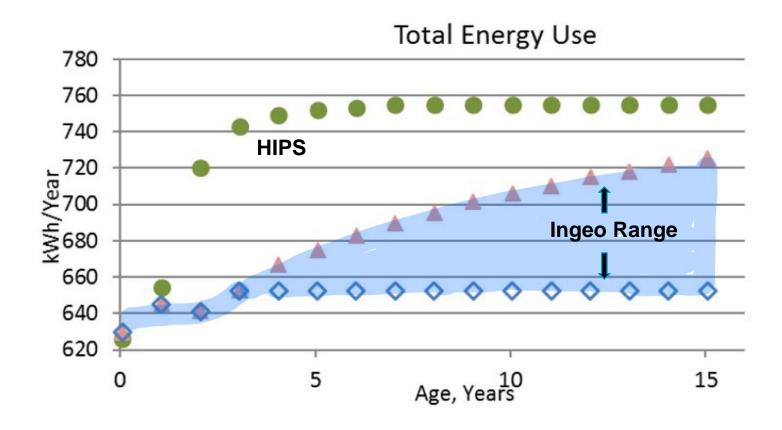








Comparative Energy use of Refrigerator-Freezer with HIPS vs Ingeo Liners





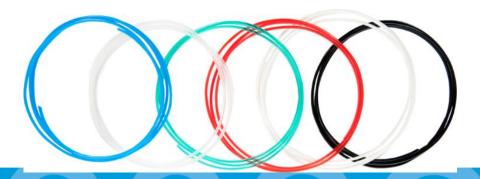
Collaboration with Oak Ridge National Lab, USA



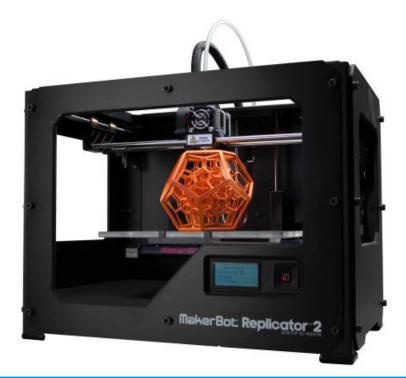
3D Printing - New Material Innovation Fueling Wholly New Markets ...

Ingeo Performance in a (rapidly) emerging end market

- Low polymer thermal shrinkage means high resolution printing of the most complex parts
- Strong Ingeo fusing performance means it's easy to use and performs well on most prints
- Low Ingeo melt point means safer, lower temperature printing.
- Very low emissions with Ingeo means no unpleasant odors









October 29, 2018, the Ellen MacArthur Foundation announced that NatureWorks, along with other global companies, have signed the New Plastics Economy Global Commitment.

NatureWorks committed to the following goals in support of sustainable agriculture for bioplastics:

2019

60% of our feedstock will be certified as sustainably and responsibly managed via ISCC PLUS.

2020

100% of our feedstock will be certified as sustainably and responsibly managed via ISCC PLUS.





2025

100% of new feedstocks for additional manufacturing capacity will be certified as sustainably and responsibly managed via an independent, 3rd party program.



















Naturally advanced materials made from locally abundant and sustainable natural resources





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