TEXTILE STUDY ANALYSIS OF FIBER & TEXTILE

POLYLACTEDE (PLA) / CORN

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FASHION BUSINESS



1.816 tons of disposable diapers are used daily in the U.S. Corn starch may sound like an unusual ingredient to include in a diaper, but it's safe to use, available in large quantities and cheap to buy. In the United States, 1,816 tons of disposable diapers are used daily

Polylactide (PLA)

- 1. Highly versatile thermoplastic polymer
- 2. Madel00% from renewable resources
- 3. Lactic acid is derived from various sources:

Corn starch

Tapioca Products (roots, Chips or stretch

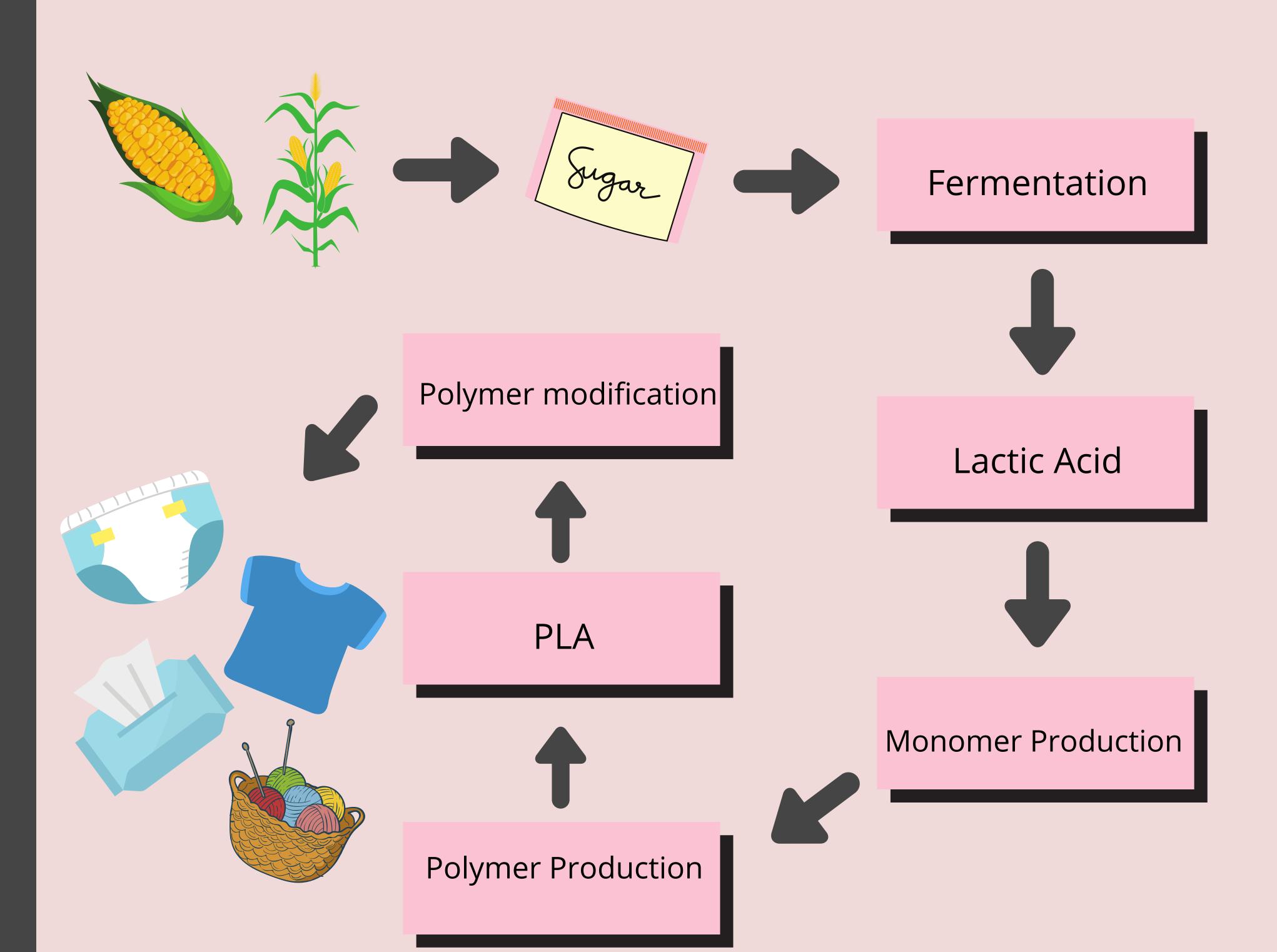
Sugarcanes







Manufacturingsteps



Properties

- 1. Insoluble in water, moisture, and grease resistant
- 2. Clarity and Glossiness similar
- 3. Biodegradable and compostable

Products

Industrial Fibers and Non-wovens



Carpet Tiles

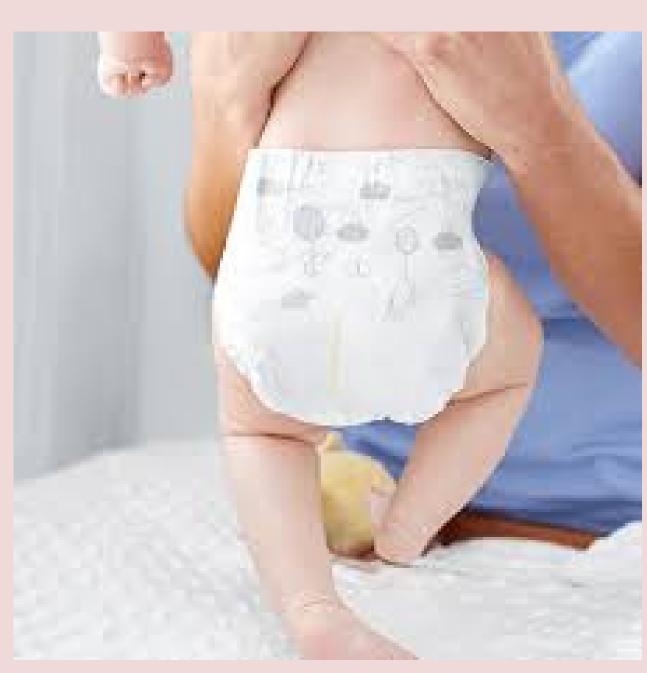


Wipes



Apparel





Advantage

- 1. Biodegradable nature and sustainable process by which it is made, making it the environmentally friendly
- 2.It produces no toxic compounds when burned
- 3. It produces methane, a potent greenhouse.
- 4.PLA is thermoplastic, meaning it will turn into a liquid in its melting points of 150 to 160 Celsius.



Disadvantage

- 1.A material made from PLA may even show signs of getting soft or deforming on a hot summer day
- 2. PLA packaging material has been found to be more permeable to moisture and oxygen compared to other plastics, which may result in faster spoilage

