

Biopolymer

Bio Based Plastics at a Glance

Ingredients

Plastic vs Bio Plastic

is a synthetic material, most commonly derived from petrochemicals



is a plastic material made from renewable biomass sources



Polysaccharides from starches, such as potatoes or corn

Cellulose from sugar cane or sugar beet

Proteins from wheat gluten, silk or wool

Chitin such as fungi

Lignin such as wood

Lipids from plant oils and used cooking oils

“The **ingredients** define the **use and function** of the end product.”



“Some **types** of bio plastic are **biodegradable**.”

Bio Plastic

not degradable, but based on renewable resources

Bio Plastic

degradable and based on renewable resources

Non-degradable

Degradable

Synthetic Plastic

not degradable and based on petrochemical resources

Petrochemical resources

Bio Plastic

degradable, but based on petrochemical resources

Renewable resources



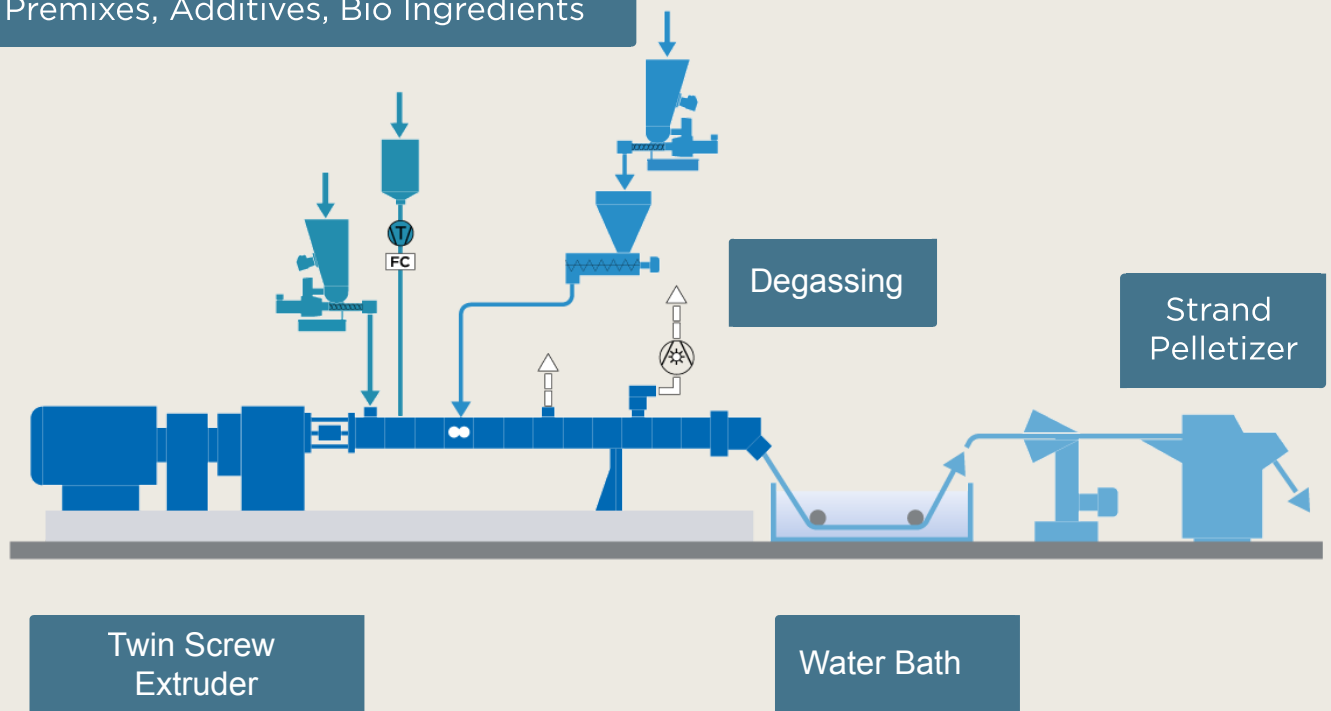
Types of Biopolymer



Production Setup



Feeding and Conveying Systems for Premixes, Additives, Bio Ingredients



Twin Screw Extruder

Water Bath

Degassing

Strand Pelletizer

Benefits



Usage of renewable resources



Potential reduction of the carbon footprint



Some are compostable



Less toxic ingredients



Coperion is the industry and technology leader in extrusion and compounding systems, feeding systems and bulk material handling plants.

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