



Processing of biodegradable products. [Sustainable compounding with Coperion's processing plants.](#)

»» Why quality is our benchmark. It is the only way to provide you with a compounding system for the production of biodegradable products which is individually designed to meet exactly your requirements.

Processing of biodegradable products makes very high demands on compounding technology because of the variety of possible base polymers and the great differences in the formulation mixtures. Every process step in a compounding system must be adapted exactly to the desired mechanical properties of the end product.

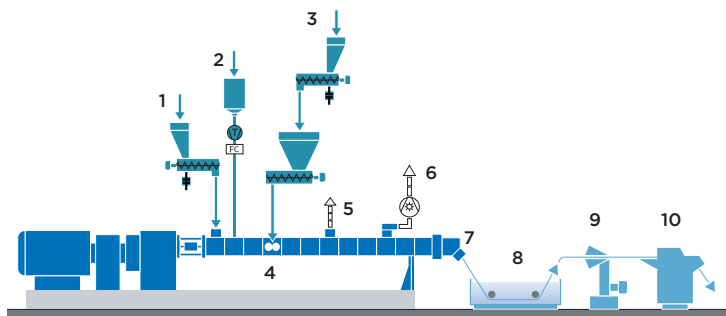
Coperion has built up comprehensive know-how for the processing of biodegradable products with numerous implemented plants. Our specialists benefit from our years of experience in the fields of plastic compounding and cooking extrusion which we have gathered as a pioneer under our former name Werner & Pfleiderer.

Our twin screw extruders are the heart of the processing systems for biodegradable products. The modular structure of the process section enables individual configuration to every application so that optimal product qualities are achieved. We also provide the entire plant periphery. You get a turnkey processing system from one supplier – from the raw material feeding to the pelletizing and drying of the pellets.



Typical applications

- › Starch-based loose fill
- › Thermoplastic starch
- › Polylactide (PLA), PVOH, synthetic copolyester (PBAT), PBS, PHA, PCL, CA
- › Compounds of different biomaterials, e.g. also with starch component
- › Compounds of plastics and biomaterials
- › Direct extrusion of TPS, PLA, PVOH
- › Pelletizing of PLA



Typical set-up for the processing of biodegradable products

- 1 Starch/powder premix | 2 Plasticizer/liquid additives | 3 Polymer pellets |
4 Twin screw side feeder ZS-B | 5 Atmospheric degassing | 6 Vacuum degassing |
7 Die head | 8 Water bath | 9 Airknife | 10 Strand pelletizer

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