

Twines and clips

Certified industrial compostable ecovio® T 2206 and ecovio® 60 IA 1552 for twines and clips used to grow annual fruit and vegetables in greenhouses

For sustainable food production: The certified compostable biopolymer ecovio® can be used to manufacture twines and clips used to grow annual fruit and vegetables in commercial greenhouses. The compound consists of the biodegradable co-polyester polybutylene adipate terephthalate (PBAT) ecoflex®, other biodegradable polymers made from renewable raw materials and inorganic fillers. The grades ecovio® T 2206 and ecovio® 60 IA 1552 are certified industrial compostable according to EN13432. This means that after harvesting the twines and clips can be collected together with the plant residues and transported to industrial composting facilities (depending on local regulations) where they biodegrade.

Twines and clips made of ecovio® T 2206 and 60 IA 1552 can be used to help creepers like tomatoes and cucumbers to climb upwards in greenhouse structures in many climates from Europe, South America to Asia and Canada: Tests show their excellent performance until the end of the crop cycle. After harvesting farmers do not have to laboriously separate the clips and twines from the plants but simply collect them together for composting.

Key technical benefits

For manufacturers:

- Drop-in solution: ecovio® T 2206 and 60 IA 1552 can be produced on standard polypropylene (PP) and polyethylene (PE) machines
- Approved for food contact acc. to FDA and European regulations

For farmers:

- High-performing: ecovio® withstands different weather conditions e.g., temperature fluctuations, relative humidity, UV radiation exposure
- Different colors: black (twines and clips) and white (clips)
- Cost-effective: costs for waste disposal of non-biodegradable materials can be saved
- For specific crops needing additional materials which are difficult to separate into different waste streams: cost savings can be doubled or tripled
- Enhanced reputation and customer loyalty: sustainable farming can enhance reputation and attract additional consumers

Sustainability benefits

- Industrial compostable ecovio® extends end-of-life of twines and clips to organics recycling and helps to close the nutrient loop to achieve a circular economy
- Persistent microplastics in agricultural soil and in organic waste can be avoided
- More plant waste can be turned into valuable compost, thus also enhancing compost quality
- Tests by recycling specialist Renewi prove successful processing in industrial composting acc. to ISO 2020



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Note

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