

Which of the following plastics are both biodegradable and from renewable feedstocks?

- A. PE, PP B. PA, PTT C. **PLA, PBS** D. PBAT, PCL

Reference: <https://www.european-bioplastics.org/bioplastics/>

Conventional plastics are derived from fossil fuels and are non-biodegradable. Examples are Polyethylene (PE) and Polyethylene terephthalate (PET).

Due to environmental concerns, many people are now switching to producing and consuming bioplastics. The term bioplastic means the polymer is either biodegradable or has, at least partly, been derived from plant feedstocks.

Poly(lactic acid) (PLA), Polybutylene succinate (PBS), polyamide (PA), and Poly(trimethylene terephthalate) (PTT) are all derived from renewable plant resources. However, PA and PTT are not biodegradable.

Some fossil fuel based plastics, such as polybutylene adipate terephthalate (PBAT) and Polycaprolactone (PCL) are biodegradable. These plastics are also considered bioplastics.

PLA and PBS are bio-derived and biodegradable bioplastics.

