



Applications:



- Mulch film made of polylactic acid
- Tea bags are made of polylactide (PLA).
 Peppermint tea is enclosed.





- 1. Prevention
- 2. Atom economy
- 3. Less hazardous synthesis
- 4. Deigning safer chemical
- 5. Safer auxiliary substance
- 6. Energy efficiency
- 7. Use of renewable resource
- 8. Reducing derivatives
- 9. Catalysis
- 10. Design for degradation
- 11. Use of real time analysis for pollution prevention
- 12. Accident prevention



















10. Design for degradation

- It can biodegrade under certain conditions, such as the presence of oxygen.
- Through <u>thermal depolymerization</u>, a highly purified lactic acid is extracted and can be considered as raw material for the manufacturing of virgin PLA with no loss of original properties..







