



PLA RECYCLING

(for internal use only)

What is it?

PLA recycling is a new technology that has been developed by Zeus, and will be made available to interested parties via a technology licensing agreement.

We have created an innovative recycling approach using chemical degradation of PLA. This new biopolymer recycling process allows low temperature degradation of PLA into its component monomers. This new recycling method is carried out at significantly lower temperatures than earlier chemical recycling methods and does not require pressurized vessels for chemical conversion.



Why are we doing it?

In addition to manufacturing and extruding PLA resin, we have developed an end-of-life management program to reduce its environmental impact. The new, low-temperature method of recycling this highly useful biodegradable polymer promises to be significantly more cost-effective and simpler than previously available PLA recycling methods, such as traditional mechanical recycling that degrades PLA.

We offer this technology through a license agreement for customers who, like us, are focused on forward-looking products and technology for sustainable economic success.

What does it mean for the customer?

Our new proprietary process enables recovery of PLA from a mixed or clean waste stream while providing several significant advantages over current technologies including:

- High Efficiency (High % Recovery)
- Low-Temperature, Low Pressure Processing
- Economic Advantage
 - Less energy required compared to known chemical recycling
 - Recoverable processing aids
- Separates PLA from a mixed waste stream (such as PET)

Where can I learn more?

Visit our website (click on Services < PLA Recycling). We have a white paper and a technical paper that describes more about this new technology.

Please forward contact information from interested parties to Bruce Anneaux.