



Sustainable Thermoplastics

We offer a variety of sustainable solutions from the leading producers globally to help your company reach its sustainability goals through innovation and technical support.

MGI's focus is to help the entire value chain reach its sustainability goals through a variety of product offerings. If that is either finding a sustainable resin that is a drop-in solution, making difficult to recycle products more sustainable, or using recycled resins to help make your business be more circular, we are here to help you innovate and create a more sustainable future.

Problem: The resources used to create the products we use in our everyday lives and the end of life of these products.

How we can help: Reduce your companies carbon footprint by using renewable resources, utilizing recycled plastics in new products, and finding sustainable solutions for the products end-of-life.

**Our sustainable solutions include Biobased, Bio Attributed, Recycled or Compostable materials.*

Biobased

Products: PE, PLA, PBS, PETG

Advantages:

- Materials derived from renewable feedstocks such as sugarcane or corn
- Can either be recyclable or biodegradable
- Some products meet requirements as a compostable under ASTM testing method

Bio-Attributed

Products: Bio-PE & EVA

Advantages:

- Substituting fossil-based naphtha with alternative feedstock (e.g. vegetable oils, organic waste/by-products)
- These materials are a drop in solution to conventional resins and remain fully recyclable

Recycled

Products: PCR, PIR, rPET, Ocean-Bound

Advantages:

- Using a recycled feedstock helps create a circular economy and reduces the emission of greenhouse gases
- Post-Consumer Recycled (PCR)
- Post Industrial Recycled (PIR)
- Ocean-bound plastic: socially sourced plastic waste from coastal areas and waterways

Compostable

Products: PBAT, PLA, PBS

Advantages:

- Helps make difficult to recycle products more sustainable
- Meets requirements as a compostable polymer under ASTM testing method



PLA, PBAT, PBS



PE



rPET, PCR



PETG



rPET, PP, HDPE, LDPE



PE, EVA

Product Family	Category	Supplier
HDPE	Bio/Bio Circular-Attributed Recycled (PCR, PIR) Ocean-bound Biobased	Versalis Aspect #tide Braskem
LDPE	Bio/Bio Circular-Attributed Recycled (PCR, PIR) Ocean-bound Biobased	Versalis Aspect #tide Braskem
LLDPE	Bio/Bio Circular-Attributed Recycled (PCR, PIR) Biobased	Versalis Aspect Braskem
PBAT	Compostable	AFC Ecoplastics
PBS	Compostable, Bioplastic	AFC Ecoplastics
PETG	Bioplastic	SK Chemical
PLA Compound	Compostable, Bioplastic	AFC Ecoplastics
PP	Recycled (PCR, PIR) Ocean-bound	Aspect #tide
rPET	Recycled (PCR, PIR) Ocean-bound	Aspect #tide