

Product Description

EcoRevo is a novel additive masterbatch developed under concept of “Recycle & Beyond” that is friendly to recycle process and enable self-destructive mechanism when plastic product/waste is mismanaged so called leaked into the environment. Light (for example, sunlight), heat, and moisture all work together to actively accelerate polymer breakdown (i.e. de-polymerization). Then, natural microbes are attracted by a unique “microbe attractant”, allowing subsequent transformation to biomass and water. EcoRevo leaves no "microplastic" at the end of its self-destructive processes, hence environmentally friendly with no impact on ecotoxicity, easy to use and recyclable. EcoRevo is complied with current food safety regulations.

Product Benefits

- **Retain:** Maintains the product's physical integrity at the recommended dosage
- **Recyclable:** Suitable for recycling, without detrimental impact on product integrity within a product service life at suggested blending content
- **Return to earth:** Degrade "end-of life" plastic leaking into the environment (littering), and unmanaged or unattended. No microplastics remain after completed degradation, and there is no negative environmental impact at any stage of the process
- Meets current food safety regulations (More information please contact Technical Service)

Typical Physical Properties

Characteristic	Unit	Value
Appearance	Visual	Off-white
Pellet Size	Pellet/g	40-60
Volatile content	% wt	0.5 max
Active content	% wt	30-36



EcoRevo™

Typical Applications

- EcoRevo is effective, in particular, in PP, including homopolymers, and random copolymers.
- EcoRevo is recommended for single use PP plastic products such as
 - Thermoformed-PP products (e.g. cups, trays, lids)
 - Thin wall injection molded-PP products (e.g. cups, trays, pots, tubs, lids)
 - Blown-film-PP products (e.g. shopping bags, bags intended for hot and cold food)



TECHNICAL DATA SHEET

Product Type
Sustainable Additive Masterbatch

Printing date: 01.04.2025

Revision: 01.04.2025

Product Name
EcoRevo

Product Grade
EcoRevo-PR / -PF

Version No.: 03

Guidelines Dosage

Type of Polymer	Recommended Letdown (wt%)	
	Natural Color product	Product containing pigment (white/black)
PP Homopolymer	2.0-2.5	2.5-3.0
PP Random Copolymer	2.2-2.5	

Dosage adjustments outside of the recommended ranges are possible. Please contact Technical Service Department for more information (See Section Product Technical Assistance)

Blending Procedures

EcoRevo can be directly dry-blended with PP resin in a hopper mixer/drum tumbling or direct loss in weight feed rate control into a processing equipment. Ensure sufficient and well mixing for consistent performance.

“Hand” mixing is not recommended

Processing Condition

- The product was recommended to process at conventional PP fabrication temperature, such as 200-240°C for sheet extrusion and thin wall injection, and 180-200°C for blown films
- In some circumstances such as the sheet extrusion process, a processing temperature 10-20°C lower than normal is advised for better control of sheet thickness and appearance
- Process-ability and product quality are affected by processing conditions (i.e. temperature, pressure, speed, etc.) and polypropylene resins used

Product Technical Assistance

For technical assistance or further information on the products, please contact Texplore Co.,Ltd. at the address or telephone number as specified below.

Product Packaging

- 25 kg normal bag



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Storage

- Store in original container in tidy according to the manual of Handling and Storage from Texplore Company Limited.
- Product(s) should be stored in dry and dust free location, and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials, as this may lead to quality deterioration, which results in odor generation and color changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled container. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be sloped

Safety

The product is not classified as a hazardous material. Please see Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products.

For more information, contact Texplore Co.,Ltd. at the address or telephone number as specified below.

Disclaimer

- The applications specified herein is for reference only
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warrant of merchantability or fitness for a particular purpose.
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