BASF
We create chemistry

IrgaCycle™

Enhancing the value of recycled plastics to create a sustainable and circular future



Part of VALERAS™ portfolio

The benefits at a glance

Close the loop for sustainable plastics

- Increase recycled content in multiple forms
  - Enable increased incorporation of recyclates
  - Process contaminated reyclates more easily
- Optimize processing of recyclate
  - Protect polymers from degradation during recycling
  - Stabilize processing and melt flow
- Improve durability of articles
  - Limit gel formation in flexible applications
  - Improve long-term material stability

Efficient and versatile usage

- Applicable for post-consumer and post-industrial resins
- Tailored to polyolefins for a range of applications
- Easily dosed at low concentrations in compounding or converting processes

IrgaCycle™ additive solutions are specifically designed to boost the quality and quantity of recycled content in plastic articles.

These solutions, tailored to various industries and diverse polymer streams, enable plastics to be used more than once in high-performance applications. IrgaCycle™ additive solutions protect recyclates during processing and beyond.

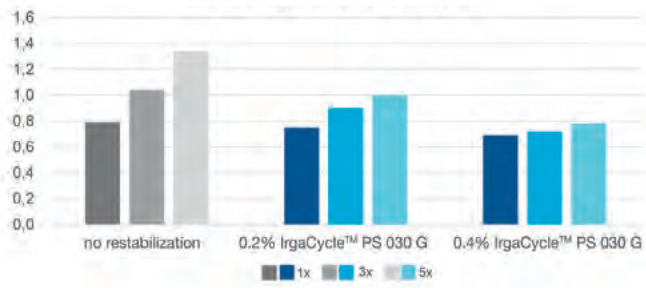
Enhancing recyclates for packaging, automotive, and agriculture applications ensures that plastics are used sustainably and diverted from landfills as one solution to create a circular economy.

Improve quality and performance for rigid applications

IrgaCycle™ PS 030 G

- Improves quality and durability of rigid articles made from post-consumer and post-industrial recyclate
- Enhances processing and long-term stability

Multi pass extrusion of post consumer rHDPE at 250°C:
Melt Flow Rate (230°C / 10 Kg) after 1x, 3x and 5x extrusion

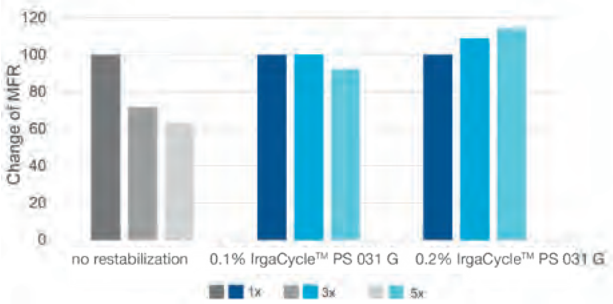


Sustainable processing of recyclate for film and flexibles

IrgaCycle™ PS 031 G

- Enhances processing and long-term stability of rLDPE and rLLDPE; e.g. packaging films, wrap or shrink films, pouches

Multiple Extrusion of rLDPE at 220°C:
Change of MFR [%] after 1x, 3x and 5x extrusion

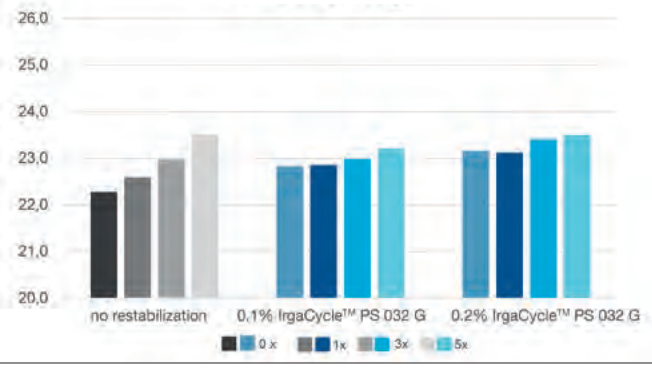


Enable use of heavily contaminated recyclates by improving the quality

IrgaCycle™ PS 032 G

- Tailored for strongly degraded or contaminated rHDPE and rPP

Multi pass extrusion of rHDPE at 270°C:
Melt Flow Rate (230°C / 10 Kg) after 1x, 3x and 5x extrusion

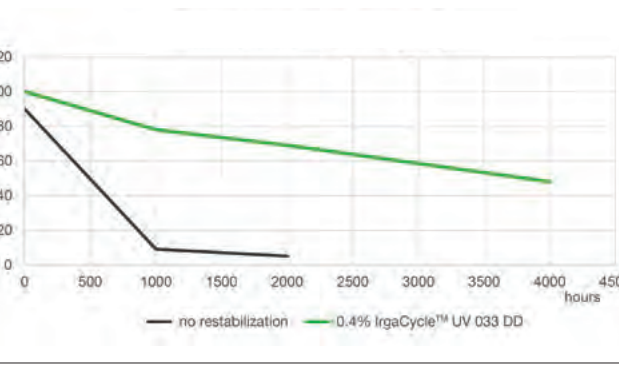


Improves weathering performance for higher durability

IrgaCycle™ UV 033 DD

- Upgrades recyclates for durable applications
- Extends weathering stability and durability of recyclates

Long term weathering stability of rPP (Weatherometer Ci 65 A, BPT 63°C, RH 60°): Retained tensile impact strength [%] over time



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