

RECYCLOBYK 4379

Heat stabilizer and processing aid formulation for use in various polyolefin recycling processes to improve the processability and long-term aging resistance of the recyclate. Also supports processing in single-screw processes, such as injection molding.

Product data

Composition

Organic heat stabilizer composition

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

MFR (190 °C, 2.16 kg): 100 g/10 min
Color: off-white
Delivery form: pellet

Storage and transportation

Product shelf life in unopened original packaging: 24 months
To be stored and transported at a temperature below 45 °C.

Applications

Thermoplastics

Special features and benefits

- Restabilization of polyolefin recyclates
- Improvement of the long-term thermal aging properties of the recyclate → Increased quality and wider range of applications for the recycled end product
- Supplied as concentrate in an LDPE carrier
 - Easy to use
 - Also suitable for use in single-screw processes (e.g. injection molding)
 - Improved homogenization and distribution of the additive in the recyclate
- Easy and precise dosing thanks to the free-flowing pellet form
- Improved melt flow properties
- Neutralizes acids from previous processing and use of the recyclate

- Suitable for:
 - Polyethylene (HDPE, LDPE)
 - Polypropylene (PP), including if contaminated with aggressive substances (e.g. battery cases)
 - Polyolefin mixtures (e.g. bottle fractions, household and industrial waste (post-consumer recycling, post-industrial recycling))

Recommended use

Extrusion and blow molding parts	<input checked="" type="checkbox"/>
Injection and compression molding parts	<input checked="" type="checkbox"/>
Thick films and sheets	<input checked="" type="checkbox"/>
Thin films	<input checked="" type="checkbox"/>

especially recommended recommended

Recommended levels

0.2-2.0 % additive (as supplied) based on the total formulation, depending on the residual stabilizer content of the material to be recycled.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

This product can be added via volumetric or gravimetric dosing units during processing in all types of extruders, blow molding, and injection molding machines.



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