



Smart Solutions For A Sustainable World



Mechanically Recycling NuPlastiQ



At low concentrations NuPlastiQ-polyethylene BioBlend® resins can be mechanically recycled in polyethylene stream with no change to processing conditions. Recycling materials with a high percentage of NuPlastiQ may require processing adjustments (mainly lower temperature).

NuPlastiQ is a thermoplastic polymer made compatible with PE, PP or PS at the resin level *before* the manufacture of plastic packaging or product. BioBlend® resins are processed using the same equipment as traditional plastics, requiring only simple adjustments that are normal to all plastic processing.

Recycling trials at Erema, a leading recycling equipment manufacturer, verified NuPlastiQ can be processed with results similar to recycling traditional resins.

Accelerated age testing has demonstrated that NuPlastiQ/PE blends “age” very similarly to pure polyethylene, without presenting any increased detrimental abiotic fragmentation.

NuPlastiQ load limitation for rigid packaging: BioLogiQ puts recyclability ahead of sales. Rigid blow-molded and injection molded articles subject to entering recycling streams should have NuPlastiQ content limited to a maximum of 10% to avoid “sinking” in the separation process at Material Recovery Facilities (MRF). Having the NuPlastiQ/HDPE blend sink could compromise PET recycling, which should be avoided. The 10% limit doesn’t apply to flexible packaging.

Note on Resin Identification Number as per ASTM:

When NuPlastiQ is included in a BioBlend with other polyolefin resins, BioLogiQ recommends using Resin Identification Codes (RIC) #7 to indicate “Other” and to properly identify the components of the blend using “TPS” as the descriptor for NuPlastiQ, e.g. LDPE/TPS.



Contact Us

If you would like to learn more about the services we offer, contact us today!

Phone: 1-208-357-9650

Email: info@biologiq.com

BioLogiQ, Inc.

3834 Professional Way
Idaho Falls, ID 83402

Hong Kong Office:

Room 401B, Energy Plaza,
92 Granville Road,
Tsim Sha Tsui East,
Kowloon, Hong Kong
Phone: +852 3619-3458

China Factory:

Shaoguan City, Guangdong
Province, China