



Mechanically Recycling NuPlastiQ



At low concentrations NuPlastiQ-polyethylene BioBlend® resins can be mechanically recycled in polyethylene streams 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 does not 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!

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