

Comparison of Products Produced with ECM MasterBatch Pellets™ to Alternative Products

	ECM MasterBatch™	Oxo-Degrader*	Bioplastics ⁺
For Biodegradation 100% Biodegradable (on land, in land, in water) 100% Biodegradable in landfill, as litter or backyard compost	True True	False False	False False
For Recycling 100% Recyclable at any time Compatible with the recycle stream	True True	False False	False False
For Properties No special storage conditions required Shelf life is indefinite Not degraded by exposure to heat, light or external stresses during storage, shipping, handling or use Does not fragment during degradation Degradation begins at the time of disposal - not before	True True True True True	False False False False False	False False False True False
For Performance When compared to the original material in the application, physical properties are unchanged and no redesign of end product needed UV or anti-oxidant additives are needed, inhibiting product performance Performance not negatively affected by over loading	True False True	False True False	False False n/a
For Processing Can be processed with conventional equipment No changes to the process settings required Biodegradable with 1% loading in PE, PP, PVC, PS and PET	True True True	True False False	False False n/a
For the Environment No heavy metals, ecologically safe Degraded product returns to the environment not as small particles, but as biomass and humus	True True	False False	True True ^o
For the Bottom Line Cost effective	True	False	False

* EPI Environmental Products Inc., Symphony Environmental, Inc., etc.

+ PLA, Mater-Bi®, PHB and combinations (NatureWorks LLC., Novamont S.p.A., et al.)

o Only in industrial/municipal composting facilities

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