MSI Master Batch Pellets
Comparison to Alternative Products

Benefits	MSI™ Master Batch	Oxo-Degradable	Bioplastics*
Degradation			
Degradable in landfills	Yes	No	No
Compostable "C" or degrades "D" in commercial compost	Yes "D"	No	Yes "C"
Recycling			
Recyclable in normal recycle stream	Yes	No	No
Properties			
No special storage conditions are required	Yes	No	No
Shelf life is same as traditional resin	Yes	No	No
Degradation is *not* initiated by exposure to heat, light, oxygen, or external stresses during storage or use	Yes	No	No
Degradation begins only at the time of disposal	Yes	No	No
Performance			
Compared to the original material in the application, physical properties are unchanged and no redesign of end-product is needed	Yes	No	No
Performance is not negatively affected by overloading	Yes	No	NA
Processing			
Can be processed with existing equipment	Yes	Yes	No
Cost effective compared to current resin pricing	Yes	Yes	No
Changes to the process settings are *not* required	Yes	No	No
Degradable with 1% loading in PE, PP, PVC, PS, and PET	Yes	No	NA
Environment			
No heavy metals - ecologically & environmentally safe	Yes	No	Yes
Returns to the environment as biomass - not as small particles	Yes	No	Yes**

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

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