



brentwood plastics, inc.

8734 Suburban Tracks
St. Louis, Missouri 63144
www.brentwoodplastics.com

Phone: 314.968.1135
Fax: 314.968.4276
Click [here](#) to send an RFQ

There are two choices in raw materials or feedstocks: **agricultural** (corn, sugar cane, etc.) or **fossil fuels** (natural gas or oil) which can have two possible outcomes: **biodegradable** or **not biodegradable**

Conventional Plastic Resins and Bioplastic Resins							
	Feedstock Source	Biodegradability Standard	Claims & Mode of Action	Examples	Square Inches per Pound @ 1 mil	Price	Comments
Conventional PE & PP	Natural Gas or Naptha	none	No biodegradability claims	Major Petrochemical Companies *	30,000	\$	Traditional Braskem is adding 1 billion pounds annual capacity of Conventional PP in Texas.
Green PE & PP	Sugar Cane	none	Not derived from fossil fuels; sugar cane is renewable	Braskem	30,000	\$\$\$	Not biodegradable
Landfill Degradable	Natural Gas or Naptha	ASTM D - 5511	Additive weakens polymer chain to biodegrade in landfill environment	Eco Logic Earth Nurture	30,000	\$\$	Relatively new approach; testing claims will take time
"Oxo" degradable	Natural Gas or Naptha	ASTM D6954-04 ASTM D6954-18	Additive makes polymer degrade in presence of UV and heat	Symphony EPI Willow Ridge BioLogiQ	30,000	\$\$	Degrades most rapidly above ground. Compostable resin manufacturers say cobalt component is a heavy metal.
Compostable	Agricultural Sources (corn, potatoes, wheat, etc.)	ASTM D6400 EN 13432	Fully digestible by microbes found in compost	Cereplast FKUR Nature Works Oxobioplast Wells Plastics	20,000	\$\$\$\$	Complies with ASTM D6400 only if less than 1 mil
Hybrid	combination fossil fuel natural gas and agricultural sources	ASTM D 5511 ASTM D 5526	landfill biodegradable fully digestible by microbes found in landfills	Cereplast Cardia ENSO BioLogiQ	20,000 - 30,000	\$\$-\$\$\$	WalMart wants all potato and apple bags to be made from biologic by 2020
PHA polyhydroxyalkanoate	Sugar Cane agro-industrial waste	no ASTM or EU standard	warm bacterial water	Bio-on	21,300	\$\$\$\$	for the seriously committed Bioplastics

* Dow, Exxon, Nova, Westlake, etc.