

Novelty (in overall market segment)

	Material	Total (CO ₂ /Ton)	COST (USD/Ton)	End Life
MATOLUTIONS-COMPOSTABLE Grade	Biopolymer	24 CO ₂ Eq	3000-3500	Home Compostable
Plastic-based	PS/PVC/PET/PP	40 CO ₂ Eq	2000-2500	Generate microplastics
Fiber-based	Cellulose Pulp	30-40 CO ₂ Eq	2500-3000	Recyclable

Novelty (within biopolymer market segment)

	Raw-material	Cost (USD/Ton)	Application	End Life
MATOLUTIONS-COMPOSTABLE Grade	Used-cooking oil	3000 - 3500	High Barrier Film	Home Compostable
Sway	Seaweed	5000 - 5500	Low barrier film	Home Compostable
Kaneka	PHA/ PHBV	8000 - 8500	Rigid Packaging	Home Compostable
Others	PLA	3000 - 9000	Flexible/Rigid packaging	Industrial Compostable