

Degradable Materials

Polylactic Acid:

PLA has the excellent properties of good moisture resistance, oil resistance and air tightness. It can remain stable under average temperature, but will automatically degrade under high temperature or oxygen- and microbial- enrich environment. It can be completely degraded by natural microorganisms and ultimately turn into carbon dioxide and water after use.

- Thermoplastic Starch (TPS):

1. Use maize and cassava as raw material
2. Heat resistance, easy to mold and good processing performance
3. Anti-hydrolysis
4. Excellent mechanical properties.
5. Completely degradable, pollution-free

Bio-based Degradable Plastics

The raw materials of bio-based plastics are mainly from non-petroleum based substances, such as PLA and TPS. It can decompose or biodegrade in the composting conditions. To some extent, it can even achieve complete degradation.

- PLA Bio-based Degradable Plastics:

1. Good Biocompatibility, biodegradable
2. Combine with PC, ABS and other petroleum-based resins; Excellent mechanical performance,
3. High Transparency, Excellent Heat Resistance
- 4 Suitable for extrusion, blow molding and other processing technologies
5. Complete degradation, pollution-free

- TPS Bio-based Degradable Plastics

1. Use cornstarch, manioc & fiber as main materials
2. Suitable to combine with PP, PE and other petroleum-based resins.
3. Biodegradability
4. Maintain good performance
5. Remarkable cost advantage

Property	Product Series	Type	Specification
Bio-based Complete Degradable Plastics	Polylactic Acid (PLA)	General-use Grade	DM3300
		Mold-injection Grade	DM3300-IJ
		Blow-extrusion	DM3300-BE
		Film Extrusion	DM3300-FE
		Sheet Extrusion	DM3300-SE
	Polyhydroxyalkanoates(PHA)	General-use Grade	DM3400
		Mold-injection Grade	DM3400-IJ
		Blow-extrusion	DM3400-BE
		Film Extrusion	DM3400-FE

		Sheet Extrusion	DM3400-SE
	Thermoplastics Starch(TPS)	General-use Grade	DM3600
		Mold-injection Grade	DM3600-IJ
		Bottle-blowing Grade	DM3600-BE
		Sheet Extrusion	DM3600-SE
Bio-based Degradable Plastics	PLA Bio-based Degradable Plastics	PC/PLA	DM3310
		ABS/PLA	DM3320
		PBT/PLA	DM3330
		PET/PLA	DM3340
		PMMA/PLA	DM3377
	TPS Bio-based Degradable Plastics	PP/TPS, Mold-injection Grade	DM8080-IJ
		PP/TPS, Extrusion Grade	DM8050-SE
		PE/TPS, Mold-injection Grade	DM1180-IJ
		PE/TPS, Extrusion Grade	DM1150-SE

