

Polymer List

Last Updated: January 2025

Polymer Abbreviation	Polymer Name	Biobased ¹	Biodegradable ²	Certified Products Available ³
C	Cellulose	Yes	Yes	A, B, C, D, E, F
CA	Cellulose Acetate	Yes	Yes	A, B, C, D, E, F
PA 10	Polyamide 10	Partially	No	
PA 1010	Polyamide 1010	Yes	No	
PA 11	Polyamide 11	Partially	No	
PA 410	Polyamide 410	Partially	No	
PA 610	Polyamide 610	Partially	No	
PBAS	Polybutylene adipate-co-succinate	In development	Yes	
PBAT (adipic acid)	Polybutylene adipate-co-terephthalate	No	Yes	A, B, C
PBAT (azelaic acid)	Polybutylene azelaic-co-terephthalate	Partially	Yes	A, B, C, D
PBS	Polybutylene succinate	Yes	Yes	A, C, D
PBSA	Poly(butylene succinate-co-butylene adipate)	Partially	Yes	A, B, C
PCL	Polycaprolactone	Yes	Yes	A, B
PDS	Polydioxanone		yes	
PE	Polyethylene	Yes	No	
PEF	Polyethylene furanoate	In development	No	
PES	Polyethylene succinate	Partially and fully biobased in development	Yes	A, C, D
PET	Polyethylene terephthalate	Partially	No	
PGA	Polyglycolide or Polyglycolic acid	No	Yes	A
PHA	Polyhydroxy alkanoate	Yes	Yes	A, B, C, D, E
PHB and copolymers ⁴	polyhydroxybutyrate	Yes	Yes	A, B, C, D, E, F
PLA	Poly(lactic acid)	Yes	Yes	A, E
PLG or PLGA	Poly(lactic-co-glycolic acid)	Yes	Yes	
PP	Polypropylene	Yes	No	

PPA	Polyphthalamide	Partially	No	
PPE	Polyphenylene ether	Partially	No	
PPF	Polypropylene fumarate	No	Yes	
PTF	Polytrimethylene furandicarboxylate	In development	No	
PTT	Polytrimethylene terephthalate	Partially	No	
TPC-ET (TPC or COPE)	Thermoplastic Copolymer Elastomer	Partially	No	
TPS	Thermoplastic starch	Yes	Yes	A, B, C, D, E, F
TPU	Thermoplastic polyurethane	Partially	No	

¹ Denotes product types that have biobased grades available. All grades of this polymer type may not be biobased.

² Biodegradability is either established by academic research and/or claims by material suppliers.

³ A (industrially compostable); B (home compostable by Vinçotte OK Home certification); C (soil biodegradable); D (marine biodegradable); E (anaerobically digestible); F (freshwater biodegradable). Grades meeting certain forms of biodegradability are supported with industry consensus standards where available. Not all grades of each polymer type may meet the form of biodegradability noted; please check with the material supplier for the biodegradability of specific bioplastic grades.

⁴ Including P₃HB, P₄HB, P₃HB₄HB, P₃HB₃HV, P₃HB₃HV₄HV, P₃HB₃Hx, P₃HB₃HO, P₃HB₃HD