

- Polymer density (ρ , in g/cm^3).
- Tensile properties: tensile strength (σ , in MPa), tensile modulus (E , in GPa) and ultimate strain (ϵ , in %).
- Specific tensile properties are obtained by dividing the original properties by the polymer density, leading to: specific tensile strength (σ^* , in Nm/g) and specific tensile modulus (E^* , in kNm/g).
- Characteristic temperatures: glass transition temperature (T_g , in $^{\circ}\text{C}$) and melt point (T_m , in $^{\circ}\text{C}$).

Properties	Limits	Type of biopolymer							
		PLA	L-PLA	DL-PLA	PGA	DL- PLA/PGA 50/50	DL- PLA/PGA 75/25	PCL	PHB
ρ (g/cm ³)	Upper	1.21	1.24	1.25	1.50	1.30	1.3	1.11	1.18
	Lower	1.25	1.30	1.27	1.707	1.40		1.146	1.262
σ (MPa)	Upper	21	15.5	27.6	60	41.4	41.4	20.7	40
	Lower	60	150	50	99.7	55.2	55.2	42	
E (GPa)	Upper	0.35	2.7	1	6	1	1.38	0.21	3.5
	Lower	3.5	4.14	3.45	7	4.34	4.13	0.44	4
ϵ (%)	Upper	2.5	3	2	1.5	2	2.5	300	5
	Lower	6	10	10	20	10	10	1000	8
σ^* (Nm/g)	Upper	16.8	40.0	22.1	40.0	30.9	31.8	18.6	32.0
	Lower	48.0	66.8	39.4	>45.1	41.2	42.5	36.7	33.9
E^* (kNm/g)	Upper	0.28	2.23	0.80	4.00	0.77	1.06	0.19	2.80
	Lower	2.80	3.85	2.36	4.51	2.14	2.12	0.38	2.97
T_g (°C)	Upper	45	55	50	35	40	50	-60	5
	Lower	60	65	60	45	50	55	-65	15
T_m (°C)	Upper	150	170	am.	220	am.	am.	58	168
	Lower	162	200		233			65	182

am.: amorphous and thus no melt point.

