

PLA (polylactic acid)

PLA is a biodegradable polymer that is ideal for prototyping 3D models with pleasing aesthetics. It has good surface quality, is somewhat glossy, and prints details with a high resolution. PLA is a reliable and easy-to-print material that can be printed at low temperatures. It has a low shrinkage factor and does not require the use of a heated build plate. It is the perfect choice for creating concept models, visualization aids, or for use in education.

Overall, PLA is not as strong as more technical materials but does have a high tensile strength. It is not recommended for functional and mechanical parts. Items printed with PLA can lose their mechanical properties and may become brittle over time.