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Abstract	:	An additive manufacturing process was used to fabricate different samples using polylactic acid and iron particle filament. Different processing parameters like temperature were used to produce different samples. The samples were tested for the mechanical and thermal testing using tensile, flexural, structural and thermogravimetric and differential scanning calorimetry, respectively. Results showed that the composites showed a lower trend of mechanical properties compared to the neat polylactic acid. It was also noticed that the parameters had minimal effects on the thermal properties of the composites. The structural changes were also noticed minimal.