

## **Abstract**

In this work, biocomposites based on low density polyethylene (LDPE), a current thermoplastic, and polylactic acid (PLA), a biodegradable thermoplastic, blends were prepared in presence of various amounts of wood flour (0 to 40 wt %). For that purpose, the following LDPE/PLA/wood flour composites were considered: 20/80/0, 20/80/5, 20/80/10, 20/80/20, 20/80/30, 20/80/40). The evolution of elongation at break, strength at break and Young's modulus was followed as a function of the wood flour concentration. The results showed that the properties of the considered composites depend on the level of wood flour.