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EVALUATION OF MECHANICAL AND THERMAL PROPERTIES BLENDS PLA/PHBV

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Currently the use of biopolymer in different areas of science is sufficiently common, always searching optimization of properties and to improve processability. In this work blends of poly(lactic acid) – PLA and poly(hydroxybutyrate-co-valerate) - PHBV had been developed in different concentrations. All the compositions were prepared using twin-screw extruder with a screw diameter of 30 mm and an L/D ratio of 30 twin screw. After extrusion were prepared samples using injection molding and evaluated mechanical e thermal properties. The preliminary results showed that mechanical and thermal properties depends the composition the blend and maybe will be necessary use compatibilized agent for increase this properties.