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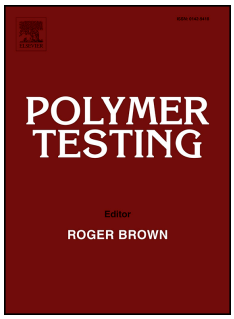

Creep and recovery behavior of injection-molded isotactic polypropylene with controllable skin-core structure

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Creep and recovery behavior of injection-molded isotactic polypropylene with controllable skin-core structure

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Abstract: The creep behavior is one of the most important properties and should be characterized to evaluate long-term durability and reliability of polymeric materials. An alteration of the crystalline structure and morphology in the semicrystalline polymer leads to a change in the creep behavior as well. In this work, in order to understand the creep behavior of different morphologies, a modified injection molding technology with twice melt filling (M2) was used to prepare isotactic polypropylene (iPP) samples with controllable skin-core structure. The different shear layer thicknesses were obtained by adjusting the time intervals of the twice melt

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