

Application-oriented inspections of Polylactides

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Abstract: Polylactide (PLA) is considered as a promising polymer from renewable resources. PLA features a high strength and stiffness and can be very easily processed by conventional thermoplastic procedures. The materials are used mainly for shorter-lived products in packaging as e.g. for films, cups or bottles.

But during the last few years there came up several granulates of PLA und PLA-Blends with a high potential for engineering applications. Because of its thermoplastic characteristics PLA is also common for injection molding use. Typical examples are mobile phone shells or desk paraphernalia . But there are even first serial applications in the automotive industries based on PLA.

But the use in durable products implies to conserve material properties constantly under conditions of use. This lecture presents typical examples of testing mechanical, thermal and rheological properties.

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