

## Properties of Polycarbonate/LC-Polyester Blends

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The properties of the films of polycarbonate (PC)/thermotropic liquid crystalline polyester (LC-polyester) blends (polymer composites) prepared by Brabender plasticorder using a slit die have been studied. The dynamic mechanical and thermal properties, and mechanical properties of the films were observed by Rheovibron and Instron. Micro-structural changes were seen by the X-ray diffraction and measurement of birefringence.

The LC-polyester phase in the films prepared in this investigation exhibited oriented fibrillar structure from morphological observation.

The strongest shear dependence was observed by blending of LC-polyester to PC. The tensile modulus and strength, orientation of fibril, glass transition temperature and crystallinity increased with increasing LC-polyester content in the blends.