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Crystallization behavior of PET

□Crystalline□ means that the polymer chains are parallel and closely packed, and □amorphous□ means that the polymer chains are disordered [8].

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increasingly.

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has taken in very good interest so far and it is believed that this interest will go on increasingly. Keywords: Crystallization, material properties, PET

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□Crystalline□ means that the polymer chains are parallel and closely packed, and □amorphous□ means that the polymer chains are disordered. Most polymers exist as complex structures made up of

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Crystalline and amorphous regions.

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Öz. Polyethylene terephthalate, commonly coded as PET, PETE, is a thermoplastic polymer resin of the polyesters and is used in liquid containers, drinks, food and synthetic fibres. Depending on its processing and thermal conditions, PET may exist both as amorphous and as semi-

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Crystalline. PET may appear opaque, white and transparent depending on its crystalline and amorphous structure.

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The process degrades PET into two main reaction products, dimethyl terephthalate

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(DMT) and ethylene glycol (EG).

Subsequent separation by distillation combined with crystallization removes critical impurities and non-PET components from copolymers, providing monomers of high purity needed for repolymerization purposes.

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behavior of PET [Crystalline] means that the polymer chains are parallel and closely packed, and [amorphous] means that the polymer chains are disordered [8]. Most polymers exist as complex structures made up of crystalline and amorphous regions.

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Abstract: PET is a thermoplastic polymer that is extensively used in the production

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of packaging material for applications such as drawn fibers, bottles, and stretched films. Its industrial applicability is largely based on the fact that it undergoes strain induced crystallization on deformation just above its glass transition temperature T_g . Crystallization imparts increased density, stiffness, dimensional stability, and

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resistance to permeability. However, the crystallization process and the mechanical behavior of PET above its T_g is highly dependent on factors such as temperature, strain rate, and the mode of deformation. This makes it necessary to have a reliable material model that can be used in FEM simulations to predict its mechanical

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behavior. This thesis is aimed at achieving two goals: i) to mechanically characterize three PET-PCT blends that have not been previously tested (PET00, PET1.5, and PET12) and to do a comparative study of the five PET-PCT blends. This was done by testing five PET-PCT blends over a range of temperatures and strain rates in

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uniaxial compression and plane strain compression modes. ii) to modify the Dupaix-Krishnan constitutive model to predict the occurrence and effects of strain induced crystallization in PET. This involved testing PET and PETG under load-hold conditions to identify the criteria that induce crystallization in PET.

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Subsequently the material model was modified by incorporating these criteria. Monotonic tests were conducted for the five PET-PCT blends (PET00, PET1.5, PET3.5, PET12, and PETG) at temperatures of 90C and 100C and strain rates of 0.1/s, 0.05/s, and 0.005/s in uniaxial compression and plane strain

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The experimental results were then fit to the Dupaix-Boyce constitutive model for these five blends. The model was able to successfully capture the dependence of the material behavior on temperature, strain rate, and strain state above T_g for the five materials. The experimental results were also useful

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in making a comparison of the mechanical behavior of the five materials to each other. This showed that the behavior of the low PCT content materials were different from that of the high PCT content materials at conditions that favored crystallization. Load hold experiments were conducted on PET00, PET3.5 and

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PETG at temperatures of 90C and 100C, and strain rates of 0.1/s and 0.005/s in both uniaxial and plane strain compression. The results obtained were similar to that of the monotonic tests, as they showed that while PET00 and PET3.5 crystallized at certain favorable conditions, PETG did not.

Therefore, it was found that the load hold

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condition was not one of the factors that lead to crystallization. Crystallization occurred in PET only when all of the following conditions were met: i) high strain rates of 0.1/s and above, ii) temperatures of 90C-100C, iii) plane strain compression and iv) after a certain amount of deformation. Based on these findings,

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changes were made to the Dupaix-Krishnan material model to improve its ability to predict the occurrence and effects of strain-induced crystallization on the large strain deformation behavior of PET near T_g .

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Textile testing is an important field of

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involving experimental evaluation of conventional as well as technical textile products. This book aims to provide technical details, required protocols and procedures for conducting any specific evaluation test along with key parameters. The book covers the topics in two main sections, first one for the

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Conventional textile testing techniques starting from fiber to final product while the second one focusses on testing of technical textiles. Written with a reader friendly approach, it will cater to graduate students in textile engineering as well as industry personnel, focusing on following key points: Addresses all techniques for

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testing both conventional and technical textiles. Describes testing techniques compliance with the latest requirements of the updated EN ISO and AATCC standards. Provides detailed description on the testing of technical textiles and their products. Discusses the operations conditions, like atmospheric conditions,

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and human error with cause and effect diagrams. Covers both destructive and non-destructive testing.

High performance plastics are replacing traditional materials in hostile environments. They possess characteristics such as exceptional strength, lightweight,

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temperature resistance (usually in excess of 160°C), chemical resistance and dimensional stability. In addition, plastics are relatively easy to process and can be coloured (or transparent) and moulded to create innovative and attractive structures. The fun car market illustrates the increasing use of plastics materials and the

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versatility and appeal needed in materials for today's marketplace. This two day international conference brought together experts discussing the latest developments in materials including properties, processing and applications. There are many different types of high performance elastomers. Their unique properties are

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essential in hostile environments and application areas include the petrochemical and refining industries, automotive, aerospace, defence, wire and cable, construction, chemical plants, nuclear, medical, food and seals. Correct material selection, compounding and processing are essential. These

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proceedings have brought together a collection of papers for material suppliers, engineers, compounders, manufacturers, processors and end-users of high performance elastomers who discussed the most appropriate materials and formulations for different applications.

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Volume is indexed by Thomson Reuters CPCI-S (WoS). The studies presented in this book cover the topics of: composites, micro/nano-materials and equipment, alloy materials, steel, polymer materials, optical/electronic/magnetic materials, energy materials and new energy technology, environmentally-friendly

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biomaterials and preparation technology,
thin films, structural materials and
earthquake-resistant structures, functional
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modeling, analysis and simulation,
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Behavior and fracture, tooling testing and evaluation of materials, thermal engineering theory and applications, detection and control technology.

The degradation of plastics is most important for the removal and recycling of plastic wastes. The book presents a

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Comprehensive overview of the field.

Topics covered include plastic degradation methods, mechanistic actions, biodegradation, involvement of enzymes, photocatalytic degradation and the use of cyanobacteria. Also covered are the market of degradable plastics and the environmental implications. Keywords:

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Biodegradable Plastics, Enzymes,
Cyanobacteria, Photocatalytic
Degradation, Wastewater Treatment,
Degradable Plastic Market, Polyethylene,
Polypropylene, Polystyrene, Polyvinyl
Chloride, Polyurethane, and Polyethylene
Terephthalate.

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Polymeric Foams: Innovations in Technologies and Environmentally Friendly Materials offers the latest in technology and environmental innovations within the field of polymeric foams. It outlines how application-focused research in polymeric foam can continue to

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improve living quality and enhance social responsibility. This book: Addresses technological innovations including those in bead foams, foam injection molding, foams in tissue engineering, foams in insulation, and silicon rubber foam
Discusses environmentally friendly innovations in PET foam, degradable and

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High-Performance Apparel: Materials, Development, and Applications covers the materials and techniques used in creating high-performance apparel, the technical aspects of developing high-performance garments, and an array of applications for

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for all those engaged in garment development and production, and for academics engaged in research into apparel technology and textile science. Offers a range of perspectives on high-performance apparel from an international team of authors with diverse expertise Provides systematic and comprehensive

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Additive manufacturing (AM) methods have grown and evolved rapidly in recent years. AM for polymers is an exciting field and has great potential in transformative and translational research in many fields, such as biomedical, aerospace, and even electronics. Current methods for polymer AM include material

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extrusion, material jetting, vat polymerisation, and powder bed fusion.

With the promise of more applications, detailed understanding of AM—from the processability of the feedstock to the relationship between the

process—structure—properties of AM parts—has become more critical. More

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Research work is needed in material development to widen the choice of materials for polymer additive manufacturing. Modelling and simulations of the process will allow the prediction of microstructures and mechanical properties of the fabricated parts while complementing the understanding of the

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Polymers: Physical phenomena that occurs during the AM processes. In this book, state-of-the-art reviews and current research are collated, which focus on the process-structure-properties relationships in polymer additive manufacturing.

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