



Crystallization Behavior Of Pet Materials

Gurucharan Chandrasekaran



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Advanced Engineering Materials III Jing Long Bu, Yun Hae Kim, 2013-08-30 Selected peer reviewed papers from the 3rd International Conference on Advanced Engineering Materials and Technology AEMT 2013 May 11 12 2013 Zhangjiajie China

Advanced Materials and Process Technology Xianghua Liu, Zhen Hua Bai, Yuan Hua Shuang, Cun Long Zhou, Jian Shao, 2012-11-12 Selected papers from the 2nd International Conference on Advanced Design and Manufacturing Engineering ADME 2012 August 16 18 2012 Taiyuan China *Process-Structure-Properties in Polymer Additive Manufacturing* Swee Leong Sing, Wai Yee Yeong, 2021-09-01 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 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 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 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 *Polymeric Foams* S.-T. Lee, 2022-05-18 *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 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 renewable foam and physical blowing agents Describes principles as well as applications from internationally recognized foam experts This work is aimed at researchers and industry professionals across chemical mechanical materials polymer engineering and anyone else developing and applying these advanced polymeric materials [Plastics Technology Handbook](#) - Don Rosato, 2010-10-22 This comprehensive handbook provides a simplified practical and innovative approach to understanding the design and manufacture of plastic products It will expand the reader's understanding of plastics technology by defining and focusing on past current and future technical trends Published in 2 volumes the content is presented so that both technical and non technical readers can understand the interrelationships of materials to processes Different plastic products are examined and their related critical factors are shown from meeting performance requirements in different environments to reducing costs and targeting for zero defects Examples used include small to large and simple to complex shapes Information is included on static properties

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and Control Engineering MCCE 2014 September 20 21 2014 Tianjin China **Book of Abstracts** American Chemical Society. Meeting, American Chemical Society, 1987 Emerging Materials and Mechanics Applications Elwin Mao, Wen Ya Tian, 2012-03-15 Selected peer reviewed papers from the the 2012 International Conference on Emerging Materials and Mechanics Applications ICEMMA 2012 February 5 6 2012 Hangzhou China *Technology and Engineering Reviews and Research Advances I* Denni Kurniawan, Fethma M. Nor, Rozzeta Dolah, 2015-02-25 Selected peer reviewed papers from the 5th International Graduate Conference on Engineering Science Humanity IGCESH 2014 August 19 21 2014 Skudai Malaysia

10th ESAFORM Conference on Material Forming Elías Cueto, Francisco Chinesta, 2007-05-10 This book contains papers presented at the 10th Annual ESAFORM Conference which covers the multitude of disciplines related to material forming This year s conference features for the first time an ECCOMAS Thematic conference devoted to new advanced numerical strategies in forming simulation which has been traditionally one of the mini symposia of the conference **Conference Proceedings** Society of Plastics Engineers. Technical Conference, 1993 **Transactions of the Materials Research Society of Japan** , 2002 Issues for 1994 1995 included papers from the IUMRS ICAM issues for 1999 2002 include papers for all the symposia sponsored by the MRSJ *Material Characterization and Modeling of Strain Induced Crystallization in PET Above the Glass Transition Temperature* Gurucharan Chandrasekaran, 2008 Abstract PET is a thermoplastic polymer that is extensively used in the production 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 Tg Crystallization imparts increased density stiffness dimensional stability and resistance to permeability However the crystallization process and the mechanical behavior of PET above its Tg 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 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 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 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 compression 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 Tg for the five materials The experimental results were also useful 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 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 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 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 Tg

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