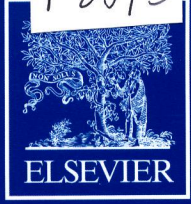
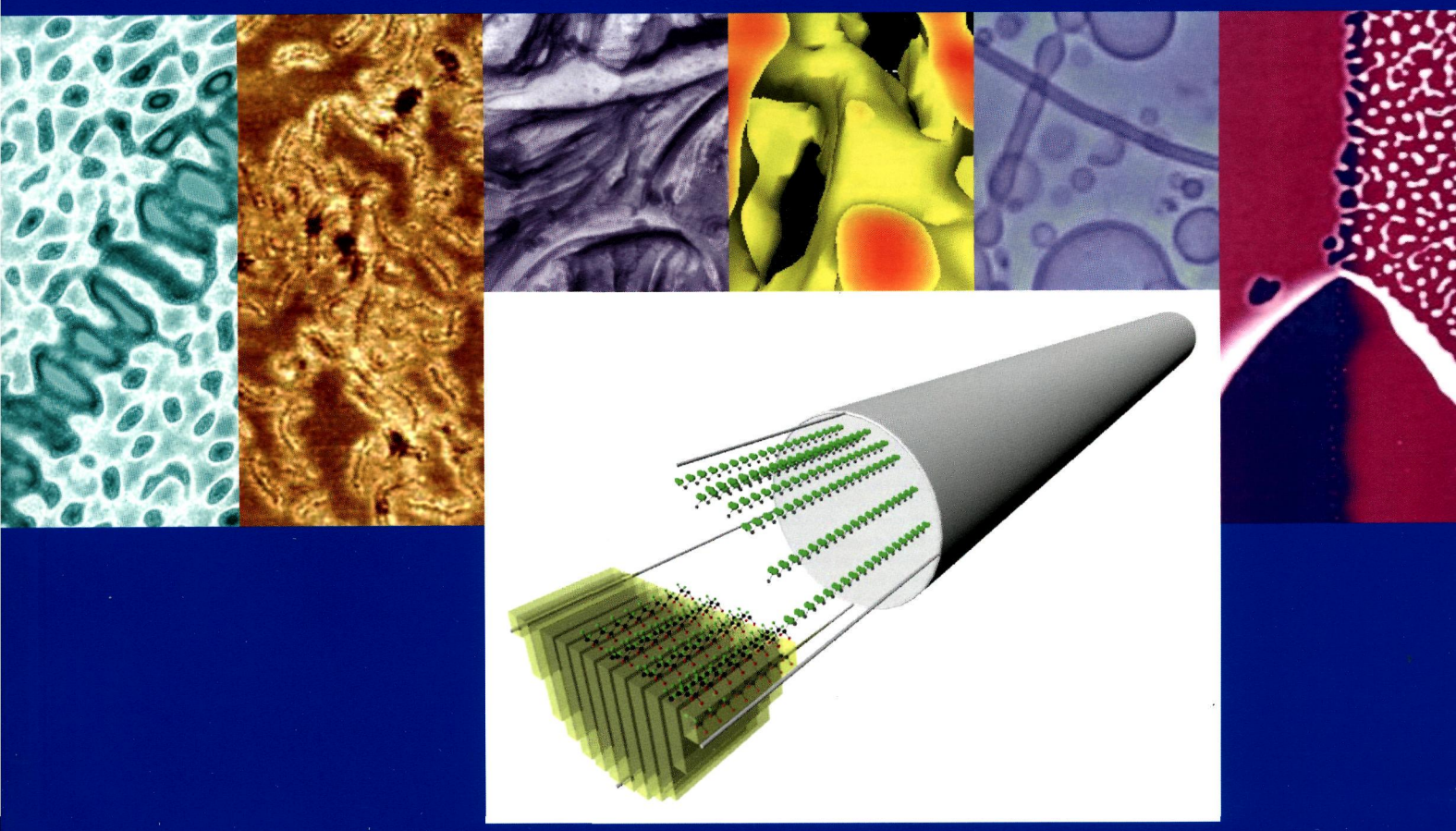


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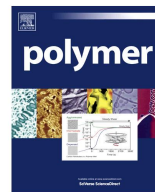
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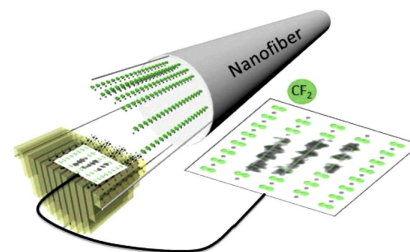
FEATURE ARTICLE

Molecular scale imaging and observation of electron beam-induced changes of polyvinylidene fluoride molecules in electrospun nanofibers pp 3745–3756

Zhenxin Zhong<sup>a</sup>, Jane Y. Howe<sup>b</sup>, Darrell H. Reneker<sup>a,\*</sup>

<sup>a</sup>The Department of Polymer Science, The University of Akron, Akron, OH 44313, USA

<sup>b</sup>High Temperature Materials Laboratory, Oak Ridge National Laboratory, Oak Ridge, TN 37831, USA



POLYMER PAPERS

Polyfluorinated mercaptoalcohol as a H-bond modifier of poly(2,3,4,5,6-pentafluorostyrene) (PPFS) enhancing miscibility of hydroxylated-PPFS with various acceptor polymers pp 3757–3766

Jing Chen<sup>a,b</sup>, Daniela Vuluga<sup>c</sup>, Benoît Crousse<sup>d</sup>, Julien Legros<sup>e</sup>, Jannick Duchet-Rumeau<sup>a,b</sup>, Aurélia Charlot<sup>a,b,\*</sup>, Daniel Portinha<sup>a,b,\*</sup>

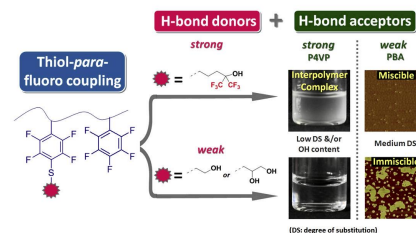
<sup>a</sup>Université de Lyon, F-69003 Lyon, France

<sup>b</sup>INSA-Lyon, CNRS, UMR 5223, Ingénierie des Matériaux Polymères, F-69621 Villeurbanne, France

<sup>c</sup>INSA-Rouen, CNRS, PBS UMR 6270, F-76801 St Etienne du Rouvray, France

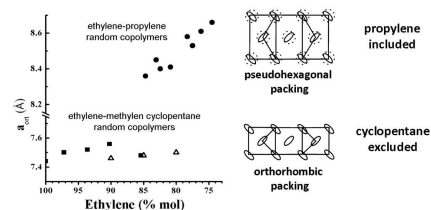
<sup>d</sup>Univ. Paris Sud, CNRS, BioCIS UMR 8076, F-92296 Châtenay-Malabry, France

<sup>e</sup>Univ. Rouen, CNRS, COBRA UMR 6014, F-76131 Mont-Saint-Aignan, France



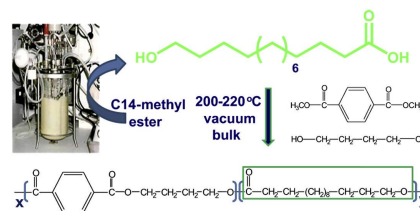
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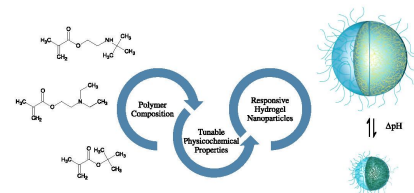
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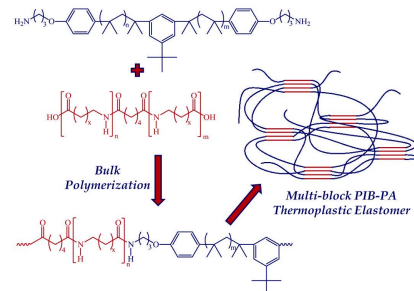
William B. Liechty<sup>a</sup>, Rebekah L. Scheuerle<sup>a</sup>, Nicholas A. Peppas<sup>a,b,c,\*</sup><sup>a</sup> Department of Chemical Engineering, The University of Texas at Austin, Austin, TX 78712, USA<sup>b</sup> Department of Biomedical Engineering, The University of Texas at Austin, Austin, TX 78712, USA<sup>c</sup> College of Pharmacy, The University of Texas at Austin, Austin, TX 78712, USA

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Lauren R. Kucera, Mark R. Brei, Robson F. Storey<sup>\*</sup>

School of Polymers and High Performance Materials, The University of Southern Mississippi, 118 College Dr. #5050, Hattiesburg, MS 39406, USA



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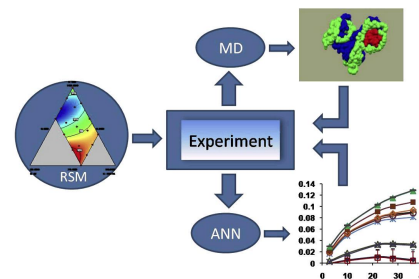
Anna V. Gubskaya<sup>a</sup>, I. John Khan<sup>b</sup>, Loreto M. Valenzuela<sup>c</sup>, Yuriy V. Lisnyak<sup>d</sup>, Joachim Kohn<sup>a,\*</sup>

<sup>a</sup> New Jersey Center for Biomaterials, Rutgers, The State University of New Jersey, Piscataway, NJ 08854-8087, USA

<sup>b</sup> Department of Biochemistry, Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey, Piscataway, NJ 08854-8087, USA

<sup>c</sup> Department of Chemical and Bioprocess Engineering, Pontificia Universidad Católica de Chile, Av. Libertador Bernardo O'Higgins 340, Santiago Centro, Santiago 756-0968, Chile

<sup>d</sup> Department of Molecular Modeling, I.Mechnikov Institute of Microbiology and Immunology NAMS of Ukraine, 14/16 Pushkinskaya St., Kharkov 61057, Ukraine

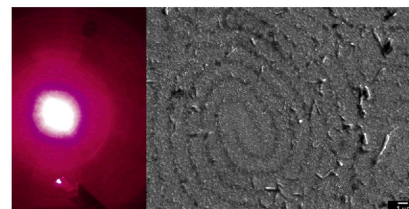


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Aohan Wang, Kohsuke Kawabata, Hirotsugu Kawashima, Hiromasa Goto\*

Faculty of Pure and Applied Sciences, Division of Materials Science, University of Tsukuba, Tsukuba, Ibaraki 305-8573, Japan

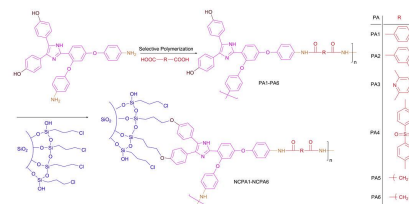


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Mehdi Taghavi, Mousa Ghaemy\*, Seyed Mojtaba Amini Nasab, Marjan Hassanzadeh

Polymer Chemistry Research Laboratory, Department of Chemistry, University of Mazandaran, Babolsar 47416-95447, Iran

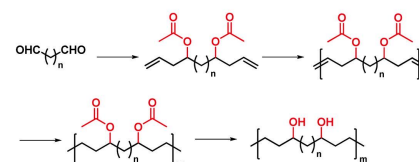


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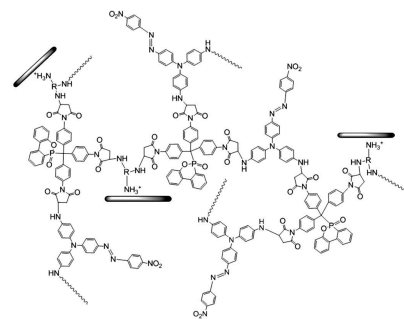
Beijing National Laboratory for Molecular Sciences (BNLMS), Key Laboratory of Polymer Chemistry & Physics of Ministry of Education, Department of Polymer Science & Engineering, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China



**Nonlinear optical hyperbranched polyaspartimide/montmorillonite nanocomposites based on reactive fluorine- or phosphorous-containing organoclays**

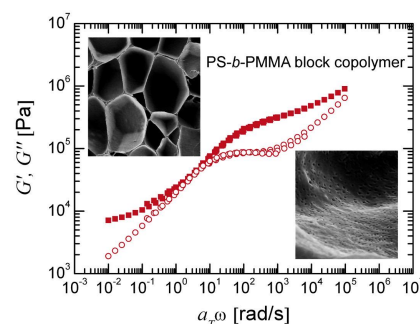
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<sup>a</sup>Department of Chemical Engineering, National Chung Hsing University, Taichung 402, Taiwan

<sup>b</sup>Institute of Polymer Science and Engineering, National Taiwan University, Taipei 10617, Taiwan

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<sup>a</sup>Institute of Polymer Research, Helmholtz-Zentrum Geesthacht, Max-Planck-Strasse 1, 21502 Geesthacht, Germany

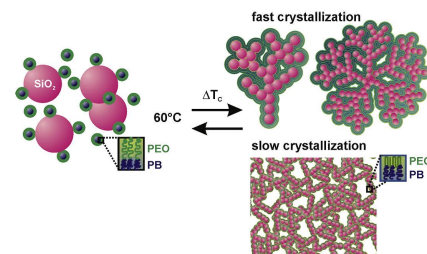
<sup>b</sup>Deutsches Elektronen-Synchrotron (DESY), Notkestrasse 85, 22607 Hamburg, Germany

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<sup>a</sup>Physical Chemistry, Department of Chemistry, Lund University, 22100 Lund, Sweden

<sup>b</sup>Adolphe Merkle Institute, University of Fribourg, 1723 Marly, Switzerland

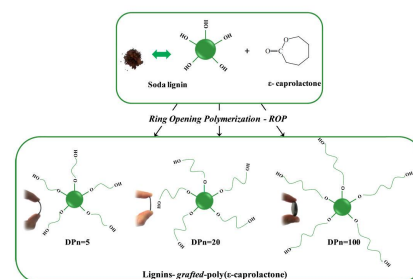
<sup>c</sup>Paul Scherrer Institut, CH-5232 Villigen PSI, Switzerland

<sup>d</sup>BASF SE, Modelling and Formulation Research, Formulation Platform, 67056 Ludwigshafen am Rhein, Germany

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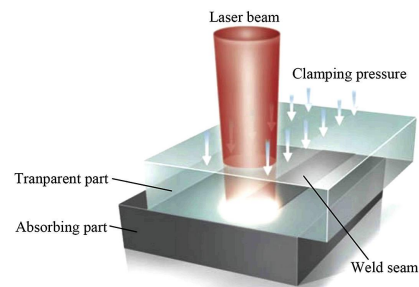
 Stéphanie Laurichesse, Luc Averous<sup>\*</sup>

BioTeam/ICPEES-ECPM, UMR 7515, Université de Strasbourg, 25 rue Becquerel, Strasbourg Cedex 2 67087, France



**Predicting the laser weldability of dissimilar polymers**

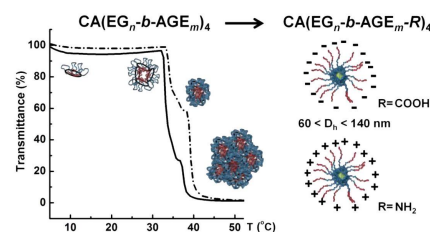
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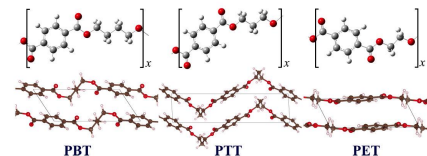
Department of Chemistry, Université de Montréal, C.P. 6128, Succursale Centre-ville, Montréal, QC H3C 3J7, Canada

**Conformational characteristics and configurational properties of poly(butylene terephthalate) and structure–property relationships of aromatic polyesters**

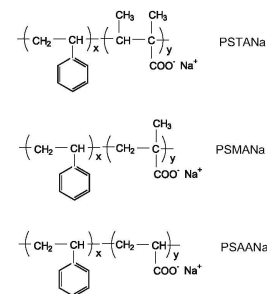
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Yuji Sasanuma<sup>\*</sup>, Yusuke Wagai, Nobuaki Suzuki, Daisuke Abe

Department of Applied Chemistry and Biotechnology, Graduate School and Faculty of Engineering, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

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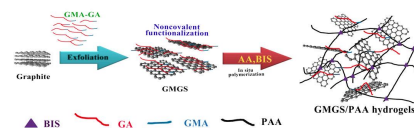
Jae-Jin Park<sup>a</sup>, Kwang-Hwan Ko<sup>a</sup>, Ju-Myung Song<sup>b</sup>, Joon-Seop Kim<sup>a,\*</sup><sup>a</sup> Department of Polymer Science & Engineering, Chosun University, Gwangju 501-759, South Korea<sup>b</sup> Radiation Research Division for Industry and Environment, Advanced Radiation Technology Institute, Korea Atomic Energy Research Institute, Jeongeup-si, Jeollabuk-do 580-185, South Korea

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Jinchen Fan, Zixing Shi\*, Jialiang Wang, Jie Yin

School of Chemistry and Chemical Engineering, State Key Laboratory for Metal Matrix Composite Materials, Shanghai Jiao Tong University, 200240 Shanghai, People's Republic of China

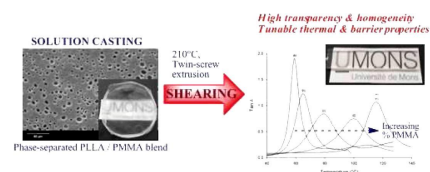


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Cedric Samuel\*, Jean-Marie Raquez, Philippe Dubois

Laboratory of Polymeric and Composite Materials (LPCM), Center of Innovation and Research in Materials and Polymers (CIRMAP), University of Mons – UMONS, Place du Parc 23, B-7000 Mons, Belgium



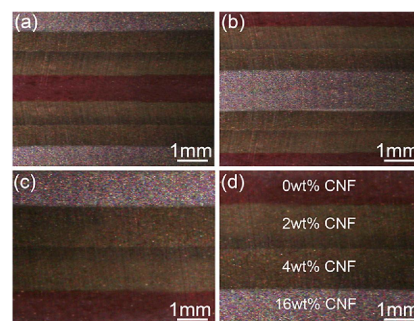
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<sup>a</sup>Institute for Frontier Materials, Deakin University, Locked Bag 20000, Geelong, Victoria 3220, Australia

<sup>b</sup>Department of Materials Engineering, Monash University, Clayton, Victoria 3800, Australia

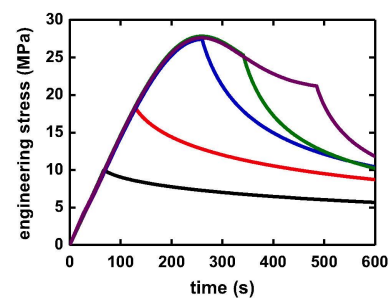


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Jae Woo Kim, Grigori A. Medvedev, James M. Caruthers\*

School of Chemical Engineering, Purdue University, West Lafayette, USA



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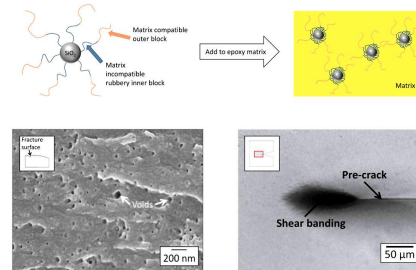
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<sup>a</sup> Department of Materials Science & Engineering, Rensselaer Polytechnic Institute, Troy, NY 12180, USA

<sup>b</sup> Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC, USA

<sup>c</sup> ABB Corporate Research, Västerås, Sweden



**Effects of surface wetting induced segregation on crystallization behaviors of melt-miscible poly(L-lactide)-block-poly(ethylene glycol) copolymer thin film**

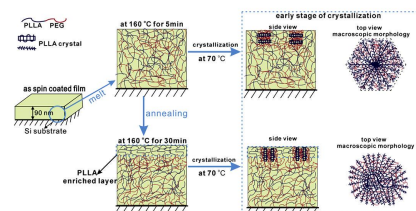
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<sup>a</sup> State Key Laboratory of Polymer Physics and Chemistry, Joint Laboratory of Polymer Science and Materials, The Beijing National Laboratory for Molecular Sciences, and Institute of Chemistry, Chinese Academy of Sciences, Beijing 100080, China

<sup>b</sup> Graduate School of Chinese Academy of Sciences, Beijing 100049, China

<sup>c</sup> Department of Nano-Systems Engineering, INHA University, Incheon 402-751, South Korea



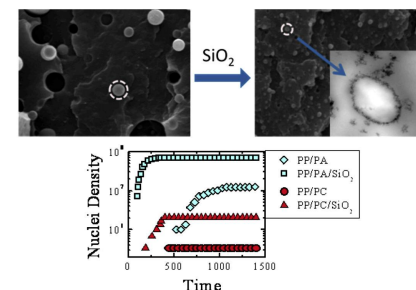
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<sup>a</sup> Center of Innovation and Research in Materials & Polymers (CIRMAP), Laboratory of Polymeric and Composite Materials (LPCM), University of Mons UMONS & Materia Nova Research Center, Place du Parc 20, B-7000 Mons, Belgium

<sup>b</sup> Grupo de Polímeros USB, Departamento de Ciencia de los Materiales, Universidad Simón Bolívar, Apartado 89000, Caracas 1080-A, Venezuela



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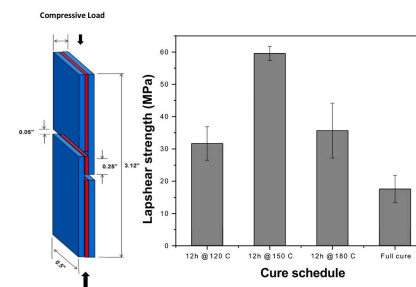
Amy Bauer<sup>a</sup>, Mahendra Thunga<sup>a,c</sup>, Kristine Obusek<sup>d</sup>, Mufit Akin<sup>a,c</sup>, Michael R. Kessler<sup>a,b,c,\*</sup>

<sup>a</sup> Department of Materials Science and Engineering, Iowa State University, Ames, IA 50011, USA

<sup>b</sup> Department of Mechanical Engineering, Iowa State University, Ames, IA 50011, USA

<sup>c</sup> Ames Laboratory, Department of Energy, Ames, IA 50011, USA

<sup>d</sup> Fleet Readiness Center East, Materials Engineering Division, AIR-4.3.4.4, Cherry Point, NC 28533, USA



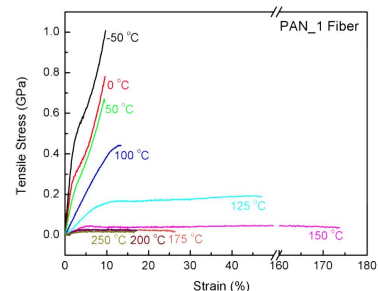


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Yaodong Liu, Young Ho Choi, Han Gi Chae, Prabhakar Gulgunje, Satish Kumar\*

School of Materials Science and Engineering, Georgia Institute of Technology, 801 Ferst Dr. NW, MRDC-1, Atlanta, GA 30332-0295, USA



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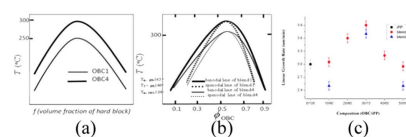
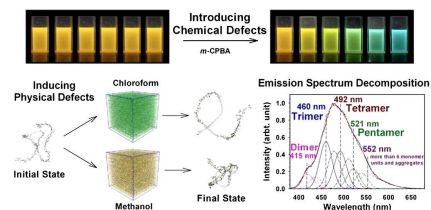
Jing Jin<sup>a,b</sup>, Hongyu Chen<sup>c</sup>, M. Muthukumar<sup>d</sup>, Charles C. Han<sup>b,\*</sup><sup>a</sup> Department of Fire Protection Engineering, Chinese People's Armed Police Force Academy, Langfang 065000, China<sup>b</sup> State Key Laboratory of Polymer Physics and Chemistry, Joint Laboratory of Polymer Science and Materials, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China<sup>c</sup> The Dow Chemical Company Limited, Shanghai 201203, China<sup>d</sup> University of Massachusetts, Amherst, MA 01003, USA

Illustration sketches. (a) Phase diagram of the OBCs studied according to reference 19. (b) Phase diagram of iPP/OBC blends studied according to reference 20, together with (c) the results of the composition and component dependent linear growth rate in iPP/OBC blends.

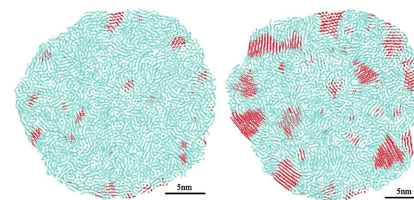
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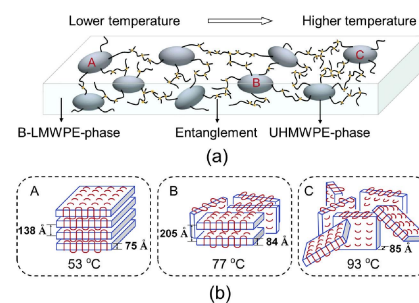
Simiao Wang<sup>a</sup>, Bin Kong<sup>a</sup>, Erik Nies<sup>c</sup>, Xiaoxia Li<sup>b</sup>, Xiaozhen Yang<sup>a,\*</sup><sup>a</sup> Polymer Physics and Chemistry Lab., National Laboratory of Molecular Science, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China<sup>b</sup> State Key Laboratory of Multiphase and Complex Systems, Institute of Process Engineering, Chinese Academy of Sciences, Beijing 100190, China<sup>c</sup> Division of Polymer Chemistry, Department of Chemistry, Katholieke Universiteit Leuven, Celestijnenlaan 200F, B-3001 Heverlee, Belgium

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<sup>a</sup> Department of Polymer Science and Engineering, Dalian University of Technology, Dalian 116024, PR China

<sup>b</sup> State Key Laboratory of Fine Chemicals, Dalian University of Technology, Dalian 116024, PR China



### OTHER CONTENT

#### Calendar

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