

Polymer Vol. 50, No. 23, 3 November 2009

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FEATURE ARTICLE

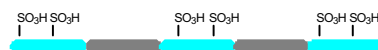
Sulfonated aromatic hydrocarbon polymers as proton exchange membranes for fuel cells

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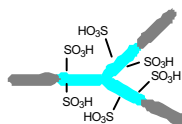
Tomoya Higashihara,  
Kazuya Matsumoto, Mitsuru Ueda\*

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Materials, Graduate School of Science and  
Engineering, Tokyo Institute of Technology,  
2-12-1 H-120, O-okayama, Meguro-ku,  
Tokyo 152-8552, Japan

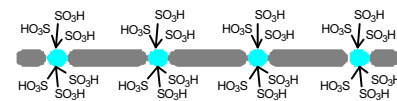
(a) Sulfonated Multiblock Copolymer



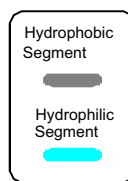
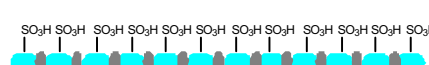
(b) Sulfonated Branched Polymer



(c) Locally and Densely Sulfonated Polymer



(d) High-IEC Sulfonated Polymer



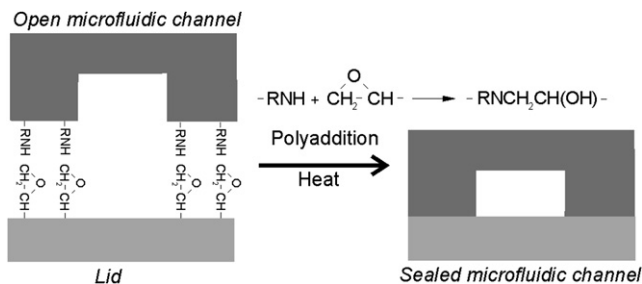
POLYMER COMMUNICATION

The fabrication of polymer microfluidic devices using a solid-to-solid interfacial polyaddition

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Zhiyi Zhang\*, Ping Zhao, Gaozhi Xiao

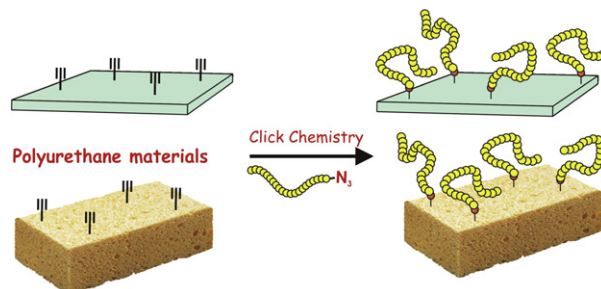
Institute for Microstructural Science, National Research Council Canada,  
1200 Montreal Road, Ottawa, Ontario K1A 0R6, Canada



## POLYMER PAPERS

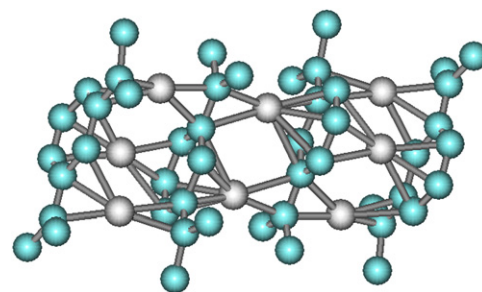
## On-demand click functionalization of polyurethane films and foams

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David Fournier<sup>a,b</sup>, Bruno G. De Geest<sup>c</sup>, Filip E. Du Prez<sup>a,\*</sup><sup>a</sup> Department of Organic Chemistry, Polymer Chemistry Research Group, Ghent University, Krijgslaan 281, S4-bis, B-9000 Ghent, Belgium<sup>b</sup> Laboratoire de Chimie Organique et Macromoléculaire (UMR 8009), Université des Sciences et Technologies de Lille, 59655 Villeneuve d'Ascq Cedex, France<sup>c</sup> Department of Pharmaceutics, Laboratory of Pharmaceutical Technology, Ghent University, Harelbekestraat 72, B-9000 Ghent, Belgium

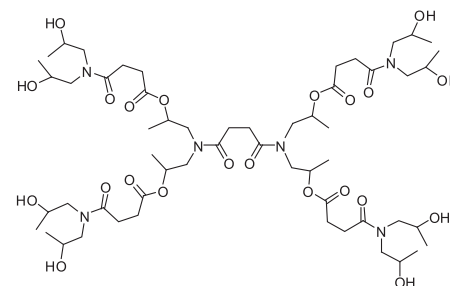
## Kinetic study of the initiation reaction by a dilithium initiator used for the preparation of ABA triblock copolymers in non-polar medium

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Kristof Janssens<sup>a</sup>, Els Loozen<sup>a</sup>, Alexander Yakimansky<sup>b,\*</sup>, Marcel Van Beylen<sup>a</sup><sup>a</sup> Laboratory of Macromolecular and Physical Organic Chemistry, Catholic University of Leuven, Celestijnenlaan 200F, B-3001 Leuven, Belgium<sup>b</sup> Laboratory of Polymer Nanomaterials and Compositions for Optical Media, Institute of Macromolecular Compounds of the Russian Academy of Sciences, Bolshoi pr. 31, 199004 St. Petersburg, Russian Federation

## New improved thermosets obtained from DGEBA and a hyperbranched poly(ester-amide)

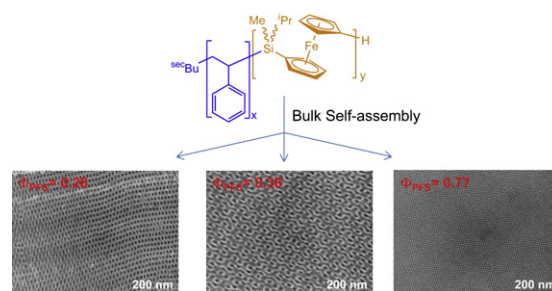
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Mireia Morell<sup>a</sup>, Xavier Ramis<sup>b</sup>, Francesc Ferrando<sup>c</sup>, Yingfeng Yu<sup>a,d</sup>, Angels Serra<sup>a,\*</sup><sup>a</sup> Department of Analytical and Organic Chemistry, University Rovira i Virgili, C/Marcel·lí Domingo s/n, 43007 Tarragona, Spain<sup>b</sup> Thermodynamics Laboratory, ETSEIB University Politècnica de Catalunya, C/Av. Diagonal 647, 08028 Barcelona, Spain<sup>c</sup> Department of Mechanical Engineering, University Rovira i Virgili, C/Paisos Catalans 26, 43007 Tarragona, Spain<sup>d</sup> The Key Laboratory of Molecular Engineering of Polymers, Ministry of Education, Department of Macromolecular Science, Fudan University, Shanghai 200433, ChinaDiblock copolymers with an amorphous, high glass transition temperature, organometallic block: synthesis, characterisation and self-assembly of polystyrene-*b*-poly(ferrocenylisopropylmethylsilane) in the bulk state

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Jessica Gwyther, Ian Manners<sup>\*</sup>

School of Chemistry, University of Bristol, Bristol BS8 1TS, United Kingdom



**Chemical modification of PP architecture: Strategies for introducing long-chain branching**

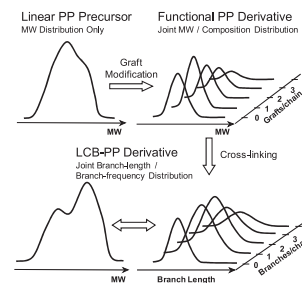
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Khalil El Mabrouk<sup>a</sup>, J. Scott Parent<sup>a,\*</sup>, Bharat I. Chaudhary<sup>b</sup>, Ronjuan Cong<sup>c</sup>

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<sup>b</sup> The Dow Chemical Company, 171 River Road, Piscataway, NJ 08854, USA

<sup>c</sup> The Dow Chemical Company, 2301 Brazosport Blvd, Freeport, TX 77541-3257, USA



**DNA-lipid complexes carrying azobenzene moieties: Preparation, characterization, and photoisomerization**

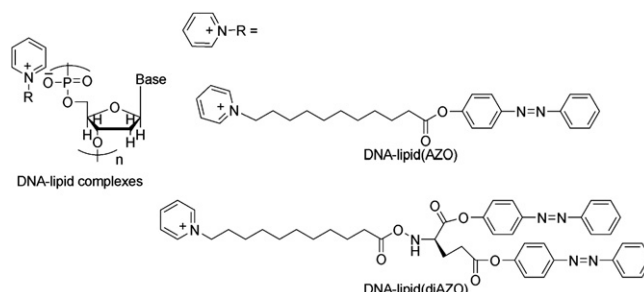
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Jinqing Qu<sup>a,\*</sup>, Zhiming Qiu<sup>a</sup>, Huanqin Chen<sup>a</sup>, Naoya Ogata<sup>b</sup>, Toshio Masuda<sup>c</sup>

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<sup>b</sup> Ogata Research Laboratory Limited, Kashiwa-dai Minami 1-3-1, Chitose 066-0009, Japan

<sup>c</sup> Faculty of Engineering, Department of Environmental and Biological Chemistry, Fukui University of Technology, 3-6-1 Gakuen, Fukui 910-8505, Japan

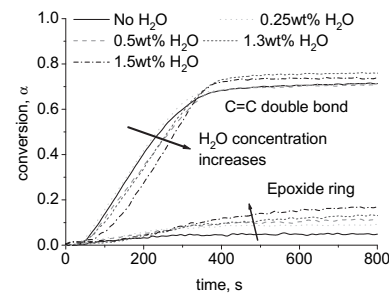


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Ying Cai, Julie L.P. Jessop<sup>\*</sup>

Department of Chemical and Biochemical Engineering, University of Iowa, 4133 Seamans Center, Iowa City, IA 52242, USA



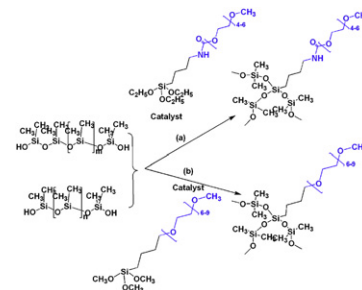
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Xiujuan Zhang<sup>a</sup>, Gui Lin<sup>a</sup>, Sai R. Kumar<sup>b</sup>, James E. Mark<sup>a,\*</sup>

<sup>a</sup> Department of Chemistry and The Polymer Research Center, The University of Cincinnati, Cincinnati, OH 45221-0172, USA

<sup>b</sup> AccuRx, Inc, 3342 International Park Drive, Atlanta, GA 30313, USA

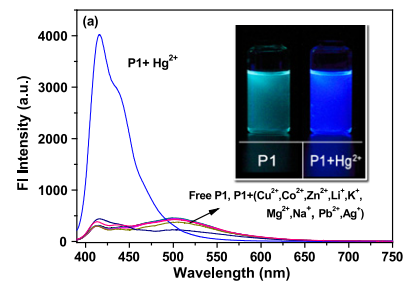


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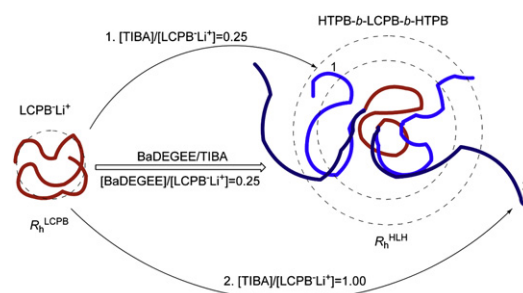
Department of Chemistry, Hubei Key Lab on Organic and Polymeric Optoelectronic Materials, Wuhan University, Wuhan 430072, PR China


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Xuetao Zhang, Yang Li\*, Chunqing Zhang, Yanming Hu, Shunxi Song, Huanhuan Guo, Yurong Wang

State Key Laboratory of Fine Chemicals, Department of Polymer Science and Engineering, Dalian University of Technology, Dalian, 116012, China

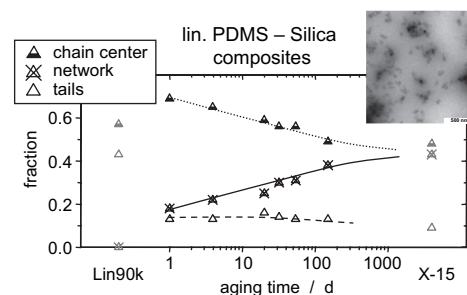

**Particle-induced network formation in linear PDMS filled with silica**

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Anca Ş<sup>a</sup>, Kay Saalwächter<sup>b,\*</sup>

<sup>a</sup> Institut für Makromolekulare Chemie, Universität Freiburg, Stefan-Meier-Str. 31, D-79104 Freiburg, Germany

<sup>b</sup> Institut für Physik – NMR, Martin-Luther-Universität Halle-Wittenberg, Betty-Heimann-Str. 7, D-06120 Halle, Germany


**Separation of propene/1-alkene and ethylene/1-alkene copolymers by high-temperature adsorption liquid chromatography**

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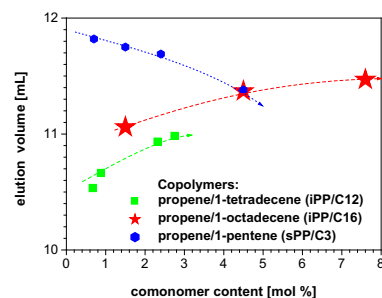
T. Macko<sup>a,\*</sup>, R. Brüll<sup>a</sup>, R.G. Alamo<sup>b</sup>, Y. Thomann<sup>c</sup>, V. Grumel<sup>d</sup>

<sup>a</sup> German Institute for Polymers, Schlossgartenstr. 6, 64289 Darmstadt, Germany

<sup>b</sup> Department of Chemical and Biomedical Engineering, FAMU/FSU College of Engineering, 2525 Pottsdamer St., Tallahassee FL 32310, USA

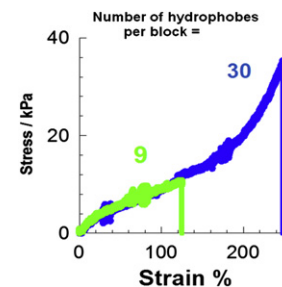
<sup>c</sup> Freiburg Materials Research Center and Institute for Macromolecular Chemistry, Stefan-Meier-Str. 31, D-79104, Freiburg, Germany

<sup>d</sup> Department of Chemistry and Polymer Science, University of Stellenbosch, 7602 Matieland, South Africa



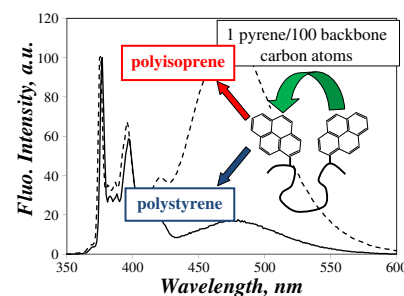
**Design of high-toughness polyacrylamide hydrogels by hydrophobic modification**

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Suzan Abdurrahmanoglu<sup>b</sup>, Volkan Can<sup>a</sup>, Oguz Okay<sup>a,\*</sup><sup>a</sup> Istanbul Technical University, Department of Chemistry, 34469 Maslak, Istanbul, Turkey<sup>b</sup> Marmara University, Department of Chemistry, Kadikoy, Istanbul, Turkey**Comparison of the long range polymer chain dynamics of polystyrene and cis-polyisoprene using polymers randomly labeled with pyrene**

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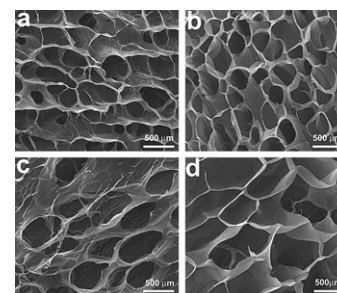
Steven J. Teertstra, Wai Yau Lin, Mario Gauthier, Mark Ingratta, Jean Duhamel\*

Institute for Polymer Research, Department of Chemistry, University of Waterloo,  
200 University Avenue West, Waterloo, ON N2L 3G1, Canada**Fabrication and characterization of novel macroporous cellulose–alginate hydrogels**

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Chunyu Chang, Bo Duan, Lina Zhang\*

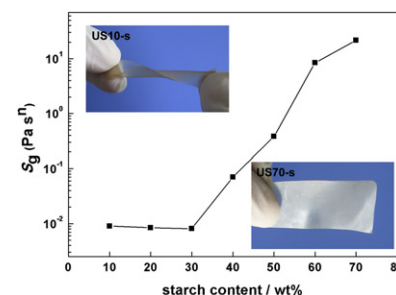
Department of Chemistry, Wuhan University, Wuhan 430072, China

**Rheological behavior of waterborne polyurethane/starch aqueous dispersions during cure**

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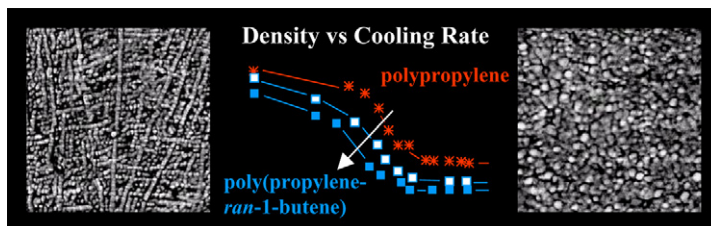
Yixiang Wang, Ang Lue, Lina Zhang\*

Department of Chemistry, Wuhan University, Wuhan 430072, China



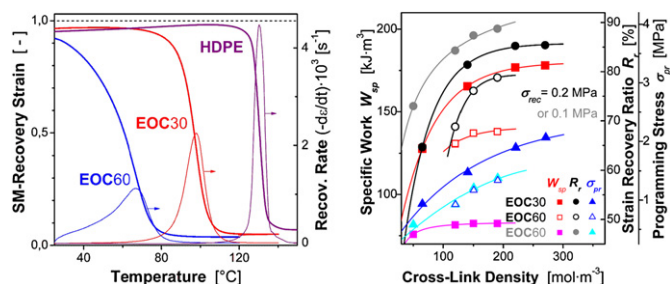
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Daniela Mileva<sup>a</sup>, Qamer Zia<sup>a</sup>, René Androsch<sup>a,\*</sup>, Hans-Joachim Radusch<sup>a</sup>, Stefano Piccarolo<sup>b</sup><sup>a</sup> Martin-Luther-University Halle-Wittenberg, Center of Engineering Sciences, 06099 Halle/Saale, Germany<sup>b</sup> University of Palermo, Department of Chemical Engineering, 90128 Palermo, Italy

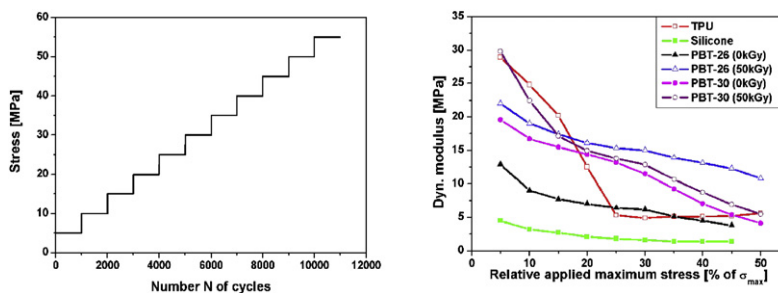
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Igor S. Kolesov<sup>a</sup>, Karl Kratz<sup>b</sup>, Andreas Lendlein<sup>b</sup>, Hans-Joachim Radusch<sup>a,\*</sup><sup>a</sup> Martin Luther University Halle-Wittenberg, Center of Engineering Sciences, D-06099 Halle (Saale), Germany<sup>b</sup> Institute of Polymer Research, GKSS Research Center, Kant Str. 55, 14513 Teltow, Germany

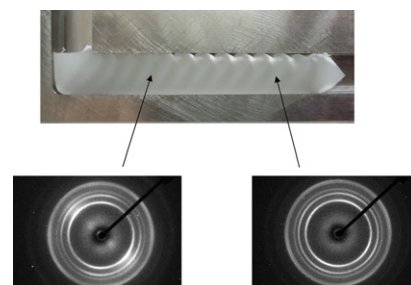
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C. Götz<sup>a</sup>, U.A. Handge<sup>a</sup>, M. Piatek<sup>b</sup>, M. El Fray<sup>b</sup>, V. Altstädt<sup>a,\*</sup><sup>a</sup> Department of Polymer Engineering, Faculty of Engineering Sciences, University of Bayreuth, Universitätsstrasse 30, 95447 Bayreuth, Germany<sup>b</sup> Division of Biomaterials and Microbiological Technologies, Szczecin, West Pomeranian University of Technology, ul. Pulaskiego 10, 70-32 Szczecin, Poland

## Deformation behaviour and mechanical properties of polypropylene processed by equal channel angular extrusion: Effects of back-pressure and extrusion velocity

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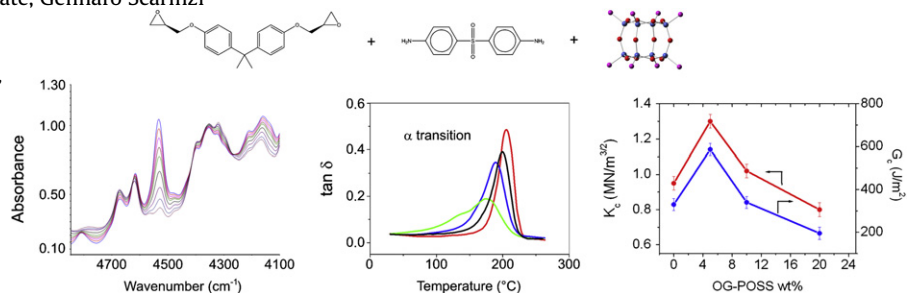
R. Boulahia<sup>a,b</sup>, J.M. Gloaguen<sup>c</sup>, F. Zaïri<sup>a,\*</sup>, M. Naït-Abdelaziz<sup>a</sup>, R. Seguela<sup>c</sup>, T. Boukharouba<sup>b</sup>, J.M. Lefebvre<sup>c</sup><sup>a</sup> Université Lille 1 Sciences et Technologies, Laboratoire de Mécanique de Lille (UMR CNRS 8107), Avenue P. Langevin, 59655 Villeneuve d'Ascq Cedex, France<sup>b</sup> Laboratoire de Mécanique Avancée, USTHB, BP32 El-Alia Bab-Ezzouar, 16111 Alger, Algeria<sup>c</sup> Université Lille 1 Sciences et Technologies, Laboratoire de Structure et Propriétés de l'Etat Solide (UMR CNRS 8008), Bâtiment C6, 59655 Villeneuve d'Ascq Cedex, France

## Reactivity, viscoelastic behaviour and mechanical performances of hybrid systems based on epoxy resins and reactive polyhedral oligosilsesquioxanes

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Giuseppe Ragosta<sup>\*</sup>, Pellegrino Musto, Mario Abbate, Gennaro Scarinzi

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National Research Council of Italy, via Campi Flegrei, 34,  
Olivetti Building, Pozzuoli (NA) 80078, Italy



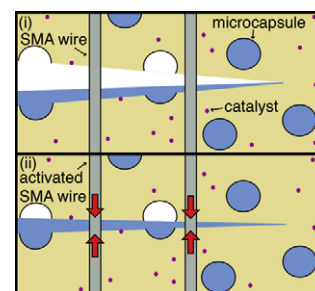
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E.L. Kirkby<sup>a</sup>, V.J. Michaud<sup>a</sup>, J.-A.E. Manson<sup>a,\*</sup>, N.R. Sottos<sup>b</sup>, S.R. White<sup>b</sup>

<sup>a</sup> Laboratoire de Technologie des Composites et Polymères, Institut des Matériaux, Ecole Polytechnique  
Fédérale de Lausanne, CH-1015 Lausanne, Switzerland

<sup>b</sup> Autonomic Materials Systems Group, Beckman Institute for Advanced Science and Technology,  
University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA



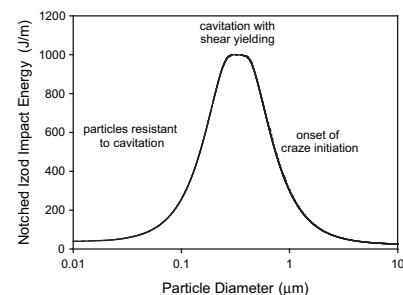
## Notched impact behavior of polymer blends: Part 1: New model for particle size dependence

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C.B. Bucknall<sup>a,\*</sup>, D.R. Paul<sup>b,\*</sup>

<sup>a</sup> SAS B61, Cranfield University, Bedford MK43 0AL, UK

<sup>b</sup> Department of Chemical Engineering and Texas Materials Institute, The University of Texas at Austin,  
Austin, TX 78712, USA



## Synthesis and thermomechanical behavior of (qua)ternary thiol-ene/(acrylate) copolymers

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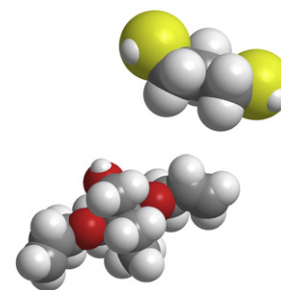
Scott E. Kasprzak<sup>a,\*</sup>, Blanton Martin<sup>b</sup>, Tulika Raj<sup>c</sup>, Ken Gall<sup>a,d</sup>

<sup>a</sup> G.W.W. School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

<sup>b</sup> Dept. of Chemistry & Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332, USA

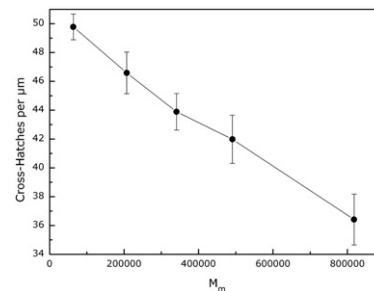
<sup>c</sup> W.H.C. Dept. of Biomedical Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

<sup>d</sup> Materials Science & Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA



**A quantitative electron-microscopic investigation of  $\alpha$ -phase lamellae in isotactic polypropylene fractions**

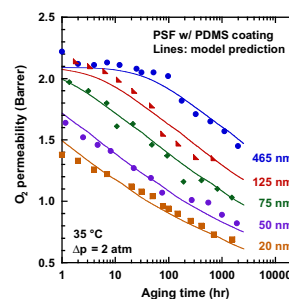
pp 5559–5564

H.M. White<sup>a</sup>, D.C. Bassett<sup>a,\*</sup>, P. Jääskeläinen<sup>b</sup><sup>a</sup> J. J. Thomson Physical Laboratory, University of Reading, Whiteknights, Reading RG6 6AF, UK<sup>b</sup> Borealis Polymers Oy, Porvoo, Finland**Physical aging of ultrathin glassy polymer films tracked by gas permeability**

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Brandon W. Rowe, Benny D. Freeman, Donald R. Paul\*

Department of Chemical Engineering, Texas Materials Institute and Center for Energy and Environmental Resources, The University of Texas at Austin, Austin, Texas 78712, United States, USA

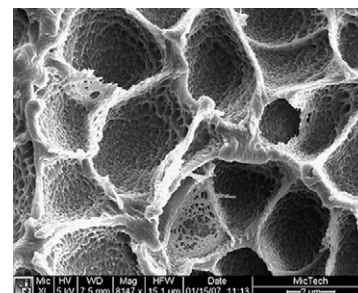
**Microcellular and nanocellular solid-state polyetherimide (PEI) foams using sub-critical carbon dioxide**

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**I. Processing and structure**

Dustin Miller, Pavee Chatchaisucha, Vipin Kumar\*

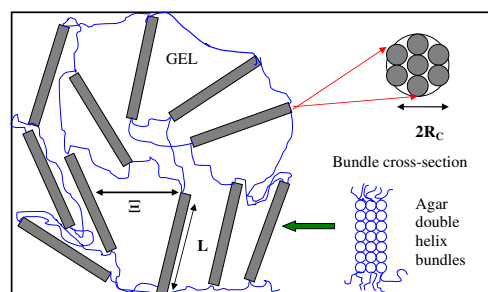
Department of Mechanical Engineering, University of Washington, Seattle, WA 98195, USA

**Hierarchical structures in agar hydrogels**

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Shilpi Boral, H.B. Bohidar\*

Polymer and Biophysics Laboratory, School of Physical Sciences, Jawaharlal Nehru University, New Delhi-110 067, India





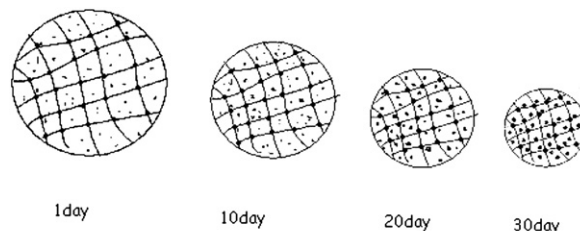
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S. Santinath Singh<sup>a</sup>, V.K. Aswal<sup>b</sup>, H.B. Bohidar<sup>a,\*</sup>

<sup>a</sup> Polymer and Biophysics Lab, School of Physical Sciences, Jawaharlal Nehru University, New Delhi-110 067, India

<sup>b</sup> Solid State Physics Division, Bhaba Atomic Research Centre, Mumbai-400 085, India



Agar gel shrinks whereas agar gelatin complex is swelling

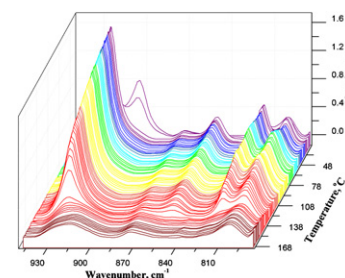
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Jingya Shi<sup>a</sup>, Peiyi Wu<sup>a,\*</sup>, Lei Li<sup>b</sup>, Tao Liu<sup>b</sup>, Ling Zhao<sup>b</sup>

<sup>a</sup> The Key Laboratory of Polymer Engineering Science(Ministry of Education) and Department of Macromolecular Science and Laboratory for Advanced Materials, Fudan University, Shanghai 200433, PR China

<sup>b</sup> State Key Laboratory of Chemical Engineering, East China University of Science and Technology, Shanghai 200237, PR China

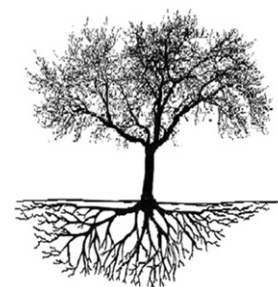


**Determination of molecular weight and molecular radius of the polyamido carboxylic acid dendrimer using generation numbers**

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Omid Louie<sup>\*</sup>, Abdolhossien Massoudi, Hooshang Vahedi, Sami Sajjadifar

Chemistry Department, Payame Noor University, Iran



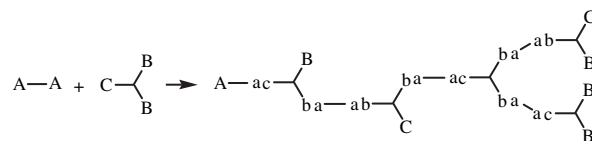
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pp 5608–5612

Zhiping Zhou<sup>a,\*</sup>, Zhengwei Jia<sup>a</sup>, Deyue Yan<sup>b</sup>

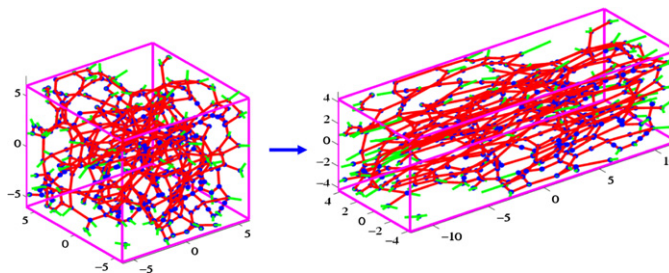
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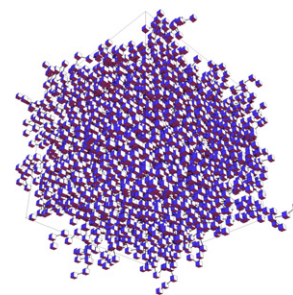


**A mesoscopic network model for permanent set in crosslinked elastomers**

pp 5613–5617

Todd H. Weisgraber<sup>a,\*</sup>, Richard H. Gee<sup>a</sup>, Amitesh Maiti<sup>a</sup>, David S. Clague<sup>b</sup>, Sarah Chinn<sup>a</sup>, Robert S. Maxwell<sup>a</sup><sup>a</sup> Lawrence Livermore National Laboratory, 7000 East Avenue L-184, Livermore, CA 94551, USA<sup>b</sup> Department of Biomedical Engineering, California Polytechnic State University, San Luis Obispo, CA 93407, USA**The distribution of the relaxation times as seen by bond fluctuation model**

pp 5618–5622

J. Molina-Mateo<sup>a</sup>, J.M. Meseguer Dueñas<sup>a,b</sup>, J.L. Gómez Ribelles<sup>a,b,c</sup>, C. Torregrosa Cabanilles<sup>a,\*</sup><sup>a</sup> Center for Biomaterials and Tissue Engineering, Universidad Politécnica de Valencia, Camino de Vera s/n, 46022, Valencia, Spain<sup>b</sup> CIBER en Bioingeniería, Biomateriales y Nanomedicina, Valencia, Spain<sup>c</sup> Regenerative Medicine Unit, Centro de Investigación Príncipe Felipe, Autopista del Saler 16, 46013 Valencia, Spain

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