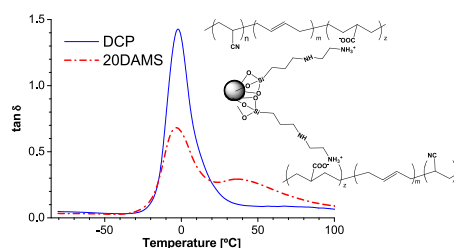




Graphical Abstracts/Eur Polym J 45 (2009) 3313–3316

MACROMOLECULAR NANOTECHNOLOGY
ARTICLES**Studies of molecular dynamics of carboxylated acrylonitrile-butadiene rubber composites containing in situ synthesized silica particles**Joanna Pietrasik ^a, Magdalena Gaca ^a, Marian Zaborski ^a, Lidia Okrasa ^b, Gisèle Boiteux ^c, Olivier Gain ^c^aTechnical University of Lodz, Institute of Polymer and Dye Technology, Stefanowskiego 12/16, 90 924 Lodz, Poland^bTechnical University of Lodz, Department of Molecular Physics, Zeromskiego 116, 90 924 Lodz, Poland^cUniversité de Lyon, Lyon F-69003, France; Université Lyon 1, CNRS, UMR5223, Ingénierie des Matériaux Polymères, 43 bd du 11 Novembre, Villeurbanne F-69622, France

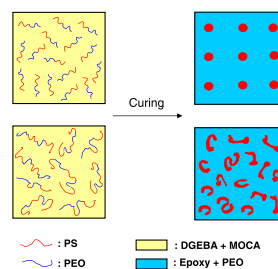
Eur Polym J 45 (2009) 3317

**Reaction-induced microphase separation in epoxy resin containing polystyrene-*block*-poly(ethylene oxide) alternating multiblock copolymer**

Di Hu, Sixun Zheng

Department of Polymer Science Engineering and State Key Laboratory of Metal Matrix Composites, Shanghai Jiao Tong University, Shanghai 200240, PR China

Eur Polym J 45 (2009) 3326



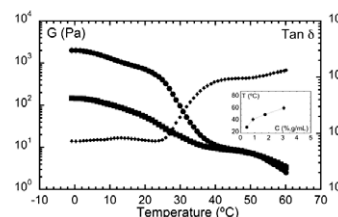
REGULAR ARTICLES

Effect of solvent on the gelation properties of a metallo-organic polymer of [Fe(II) (4-octadecyl-1,2,4-triazole)₃(ClO₄)₂]_n

Miguel Rubio, Daniel López

Instituto de Ciencia y Tecnología de Polímeros, CSIC, Juan de la Cierva 3, 28006 Madrid, Spain

Eur Polym J 45 (2009) 3339



Photoresists comparative analysis using soft X-ray synchrotron radiation and time-of-flight mass spectrometry

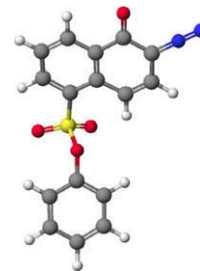
Eur Polym J 45 (2009) 3347

L.A.V. Mendes ^a, L.F. Avila ^c, J.W. Menezes ^c, R.R. Pinho ^b, C.R.A. Lima ^b,
L. Cescato ^c, M.L.M. Rocco ^a

^aInstituto de Química, Universidade Federal do Rio de Janeiro, Cidade Universitária,
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^bDepartamento de Física-ICE, Universidade Federal de Juiz de Fora, Campus Universitário,
36036-900 Juiz de Fora, MG, Brazil

^cInstituto de Física, Universidade Estadual de Campinas, 13083-97 Campinas, SP, Brazil

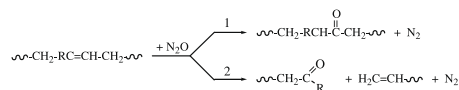


Ketonization of a nitrile-butadiene rubber by nitrous oxide: Comparison with the ketonization of other type diene rubbers

Eur Polym J 45 (2009) 3355

Sergey V. Semikolenov, Konstantin A. Dubkov, Dmitry P. Ivanov,
Dmitry E. Babushkin, Mikhail A. Matsko, Gennady I. Panov

Boriskov Institute of Catalysis, Russian Academy of Science, Lavrentieva 5,
Novosibirsk 630090, Russian Federation



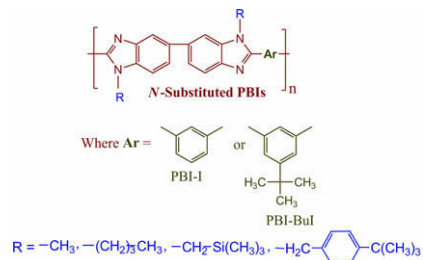
N-substitution of polybenzimidazoles: Synthesis and evaluation of physical properties

Eur Polym J 45 (2009) 3363

Santosh C. Kumbharkar, Ulhas K. Kharul

Polymer Science and Engineering Division, National Chemical Laboratory, Dr. Homi Bhabha
Road, Pune 411008, India

Polybenzimidazole (PBI) is known for its excellent thermo-chemical stability but poor solvent solubility and low gas permeability. We report structural modifications of two promising PBIs by N-substitution with alkyl groups of varying bulk and flexibility. These modification improved solvents solubility and inert gas permeability considerably, depicting promises of this approach.



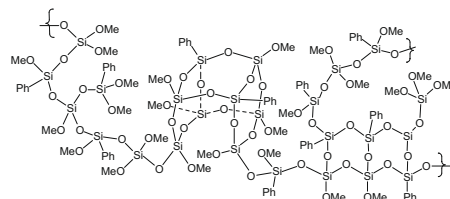
B(C₆F₅)₃ catalyzed dehydrocarbon polycondensation of PhSiH₃ with (MeO)₄Si as model polyfunctional comonomers in new route to hydrophobic silicone TQ resins

Eur Polym J 45 (2009) 3372

J. Kurjata ^a, W. Fortuniak ^a, S. Rubinsztajn ^b, J. Chojnowski ^a

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112, 90-363 Łódź, Poland

^bGeneral Electric Company, Global Research Center, 1 Research Circle, Niskayuna, NY 12309,
USA



Synthesis of phenol–formaldehyde resol resins using organosolv pine lignins

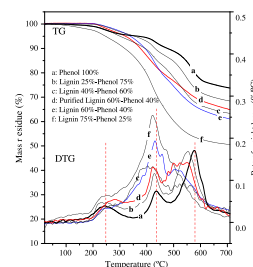
Mingcun Wang ^a, Mathew Leitch ^b, Chunbao (Charles) Xu ^a

^aDepartment of Chemical Engineering, Lakehead University, Thunder Bay, ON, Canada P7B 5E1

^bDepartment of Forestry and Environment Management, Lakehead University, Thunder Bay, ON, Canada P7B 5E1

TGA results for cured lignin–phenol–formaldehyde resins (in N₂ at 30 mL/min and 10 °C/min).

Eur Polym J 45 (2009) 3380



Influence of physical–chemical interactions on the thermal stability and surface properties of poly(vinyl chloride)-b-poly(hydroxypropyl acrylate)-b-poly(vinyl chloride) block copolymers

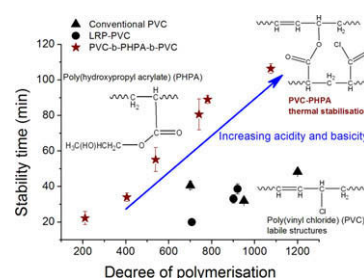
Nuno Rocha ^{a,c}, J.A.F. Gamelas ^a, Pedro M. Gonçalves ^b, M.H. Gil ^a, J.T. Guthrie ^c

^aCIEQPF, Chemical Engineering Department, University of Coimbra, 3030-790 Coimbra, Portugal

^bCires S.A. – Companhia Industrial de Resinas Sintéticas, Apartado 20, Samoqueiro – Avanca, 3864-752 Estarreja, Portugal

^cDepartment of Colour Science, School of Chemistry, University of Leeds, Leeds LS2 9JT, United Kingdom

Eur Polym J 45 (2009) 3389



Hydrogels based on carboxymethyl cassava starch cross-linked with di- or polyfunctional carboxylic acids: Synthesis, water absorbent behavior and rheological characterizations

Olayide S. Lawal ^{a,b}, Jörg Storz ^b, Henning Storz ^b, Derek Lohmann ^b, Dieter Lechner ^c, Werner-Michael Kulicke ^b

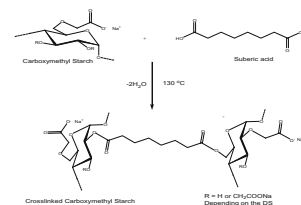
^aDepartment of Chemical Sciences, Olabisi Onabanjo University, P.M.B 2002, Ago-Iwoye, Ogun State, Nigeria

^bInstitute of Technical and Macromolecular Chemistry, University of Hamburg, Bundesstrasse 45, 20146 Hamburg, Germany

^cInstitute of Physical Chemistry, University of Osnabrück, Babarstrasse 7, 49069 Osnabrueck, Germany

Diagram showing the cross linking of carboxymethyl starch with suberic acid.

Eur Polym J 45 (2009) 3399

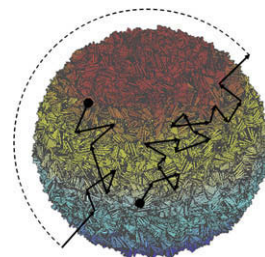


Penetrant diffusion in polyethylene spherulites assessed by a novel off-lattice Monte-Carlo technique

F. Nilsson, U.W. Gedde, M.S. Hedenqvist

School of Chemical Science and Engineering, Fibre and Polymer Technology, Royal Institute of Technology, SE-100 44 Stockholm, Sweden

Eur Polym J 45 (2009) 3409

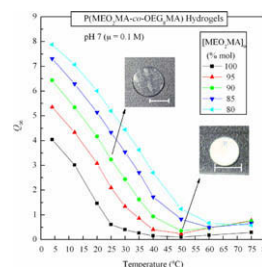


Swelling behaviour of thermo-sensitive hydrogels based on oligo(ethylene glycol) methacrylates

R. París, I. Quijada-Garrido

Departamento de Química-Física de Polímeros, Instituto de Ciencia y Tecnología de Polímeros (ICTP), Consejo Superior de Investigaciones Científicas (CSIC), c/Juan de la Cierva 3, E-28006 Madrid, Spain

Eur Polym J 45 (2009) 3418



Time-dependent Cu^{2+} -induced gelation of poly(ethylene-alt-maleic acid) in aqueous solution

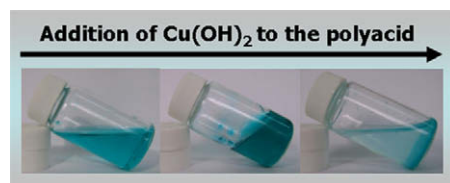
Eudokia K. Oikonomou ^{a,b}, Nicolitsa Lezi ^a, Georgios Bokias ^a, Ioannis K. Kallitsis ^{a,b}, Ilias Iliopoulos ^c

^aDepartment of Chemistry, University of Patras, GR-26504 Patras, Greece

^bFoundation of Research and Technology Hellas, Institute of Chemical Engineering and High-Temperature Chemical Processes (ICE/HT FORTH), P.O. Box 1414, GR-26504 Patras, Greece

^cMatière Molle et Chimie, UMR ESPCI-CNRS 7167, ESPCI – ParisTech, 10 rue Vauquelin, 75231 Paris, France

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Click chemistry meets polymerization: Controlled incorporation of an easily accessible ruthenium(II) complex into a PMMA backbone via RAFT copolymerization

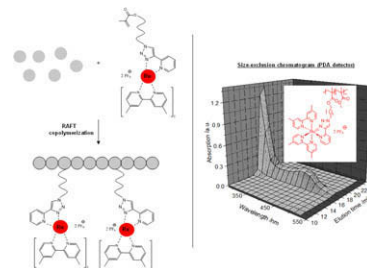
Bobby Happ ^{a,b}, Christian Friebe ^{a,b}, Andreas Winter ^{b,c}, Martin D. Hager ^{a,b}, Ulrich S. Schubert ^{a,b,c}

^aLaboratory of Organic and Macromolecular Chemistry, Friedrich-Schiller-University Jena, Humboldtstrasse 10, 07743 Jena, Germany

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^cLaboratory of Macromolecular Chemistry and Nanoscience, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands

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Controlled synthesis of AB₂ amphiphilic triarm star-shaped block copolymers by ring-opening polymerization

Svetlana Petrova ^a, Raphaël Riva ^b, Christine Jérôme ^b, Philippe Lecomte ^b, Rosa Mateva ^a

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^bCenter for Education and Research on Macromolecules (CERM), University of Liège, Sart-Tilman, B6, B-4000 Liège, Belgium

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