

Polymer Vol. 50, No. 21, 9 October 2009

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FEATURE ARTICLE

Nanotubes as polymers

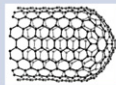
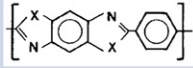
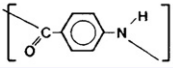
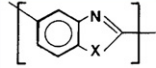
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SWNT	Rigid Rod, PBX	Rod-Like Polyamide	Semi-Flexible, ABPBX
			
Intrinsic Rigid Rod $L_p \sim 175,000\text{nm}$	Intrinsic Rigid Rod $L_p \sim 60\text{-}120\text{nm}$	Rod-Like $L_p \sim 30\text{nm}$	Expanded Coil $L_p \sim 5\text{nm}$

POLYMER COMMUNICATIONS

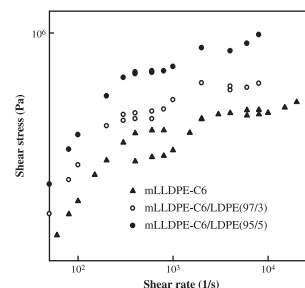
Rheological properties of long chain branched polyethylene melts at high shear rate

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Jaewhan Kim^a, Dong Hak Kim^b, Younggon Son^{a,*}

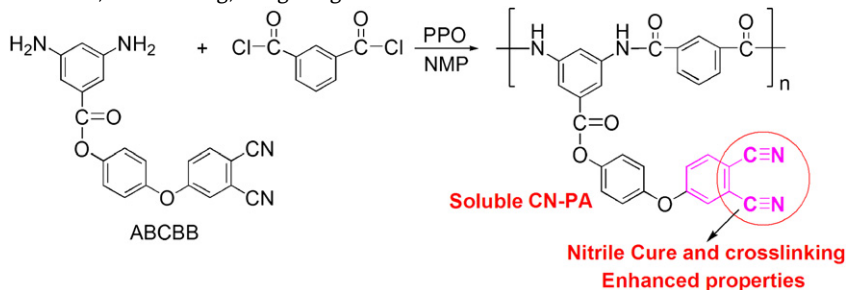
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South Korea



A new soluble aramide with pendant phthalonitrile units and polymer property enhancement by nitrile cure reactions pp 5002–5006

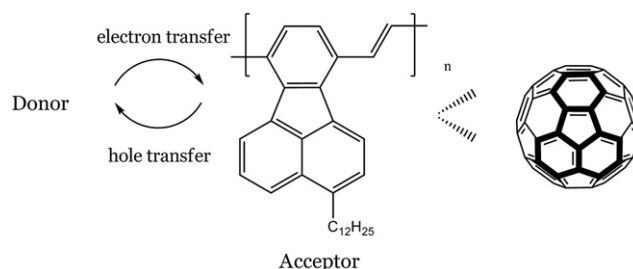
Ke Zeng, Haibing Hong, Shaohong Zhou, Dimeng Wu, Peikai Miao, Zhifu Huang, Gang Yang*

 State Key Laboratory of Polymer Materials Engineering,
 College of Polymer Science and Engineering,
 Sichuan University, Chengdu 610065, PR China

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Development of novel processable electron accepting conjugated polymers containing fluoranthene units in the main chain

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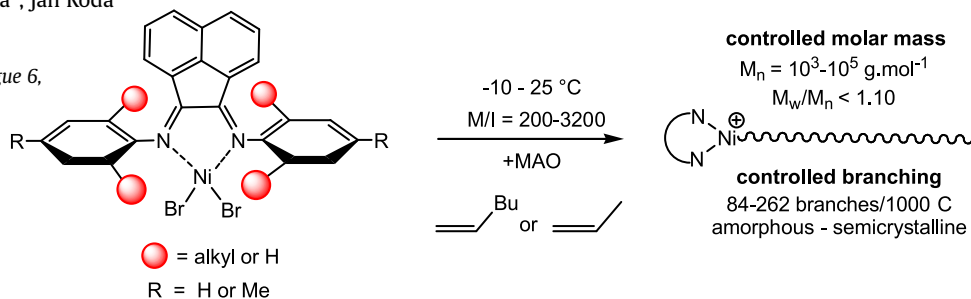
 Arne Palmaerts^a, Laurence Lutsen^b, Thomas J. Cleij^{a,*}, Dirk Vanderzande^{a,b},
 Almantas Pivrikas^c, Helmut Neugebauer^c, Niyazi Serdar Sariciftci^c
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Living/controlled olefin polymerization initiated by nickel diimine complexes: The effect of ligand ortho substituent bulkiness

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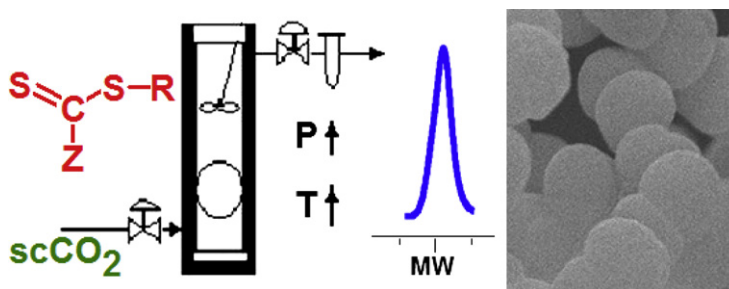
 Jan Merna^{a,*}, Zdeněk Hošťálek^a, Jan Peleška^b, Jan Roda^a
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Effect of stabilizer concentration and controller structure and composition on polymerization rate and molecular weight development in RAFT polymerization of styrene in supercritical carbon dioxide

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 Gabriel Jaramillo-Soto^a, Pedro R. García-Morán^a,
 Francisco J. Enríquez-Medrano^b, Hortensia Maldonado-Textle^b,
 Martha E. Albores-Velasco^c, Ramiro Guerrero-Santos^b,
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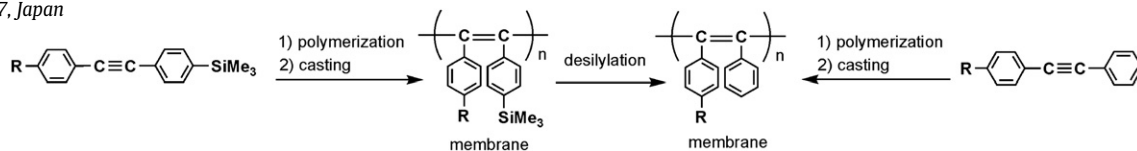
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 Universidad Nacional Autónoma de México, 04510 México D.F., México


Synthesis of novel poly(diphenylacetylene)s with both trimethylsilyl and alkyl groups: The effect of desilylation on gas permeability

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Microwave assisted synthesis of high molecular weight polyvinylsilazane via RAFT process

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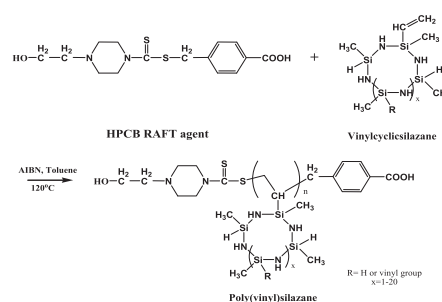


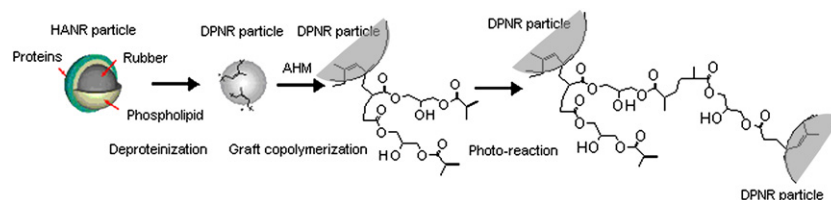
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Nanthaporn Pukkate^{a, b}, Tatsuya Horimai^b, Osamu Wakisaka^a, Yoshimasa Yamamoto^b, Seiichi Kawahara^{b, *}

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Biodegradable vesicular nanocarriers based on poly(ε-caprolactone)-block-poly(ethyl ethylene phosphate) for drug delivery

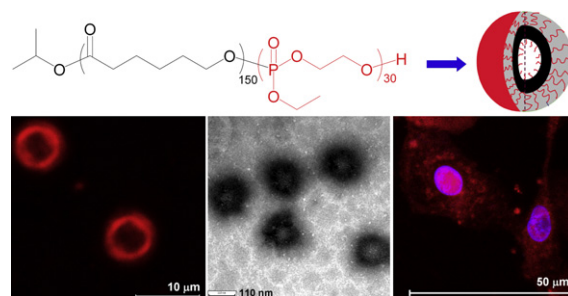
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Feng Wang^a, Yu-Cai Wang^b, Li-Feng Yan^c, Jun Wang^{a, *}

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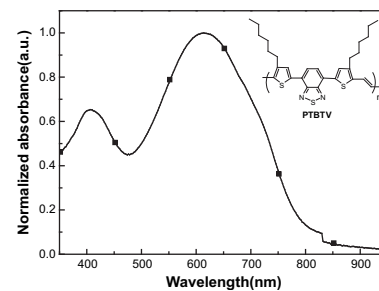
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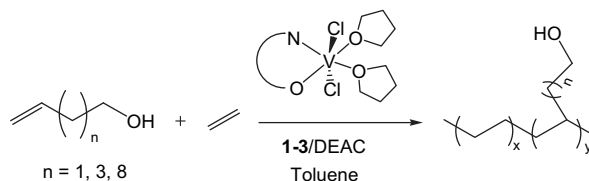


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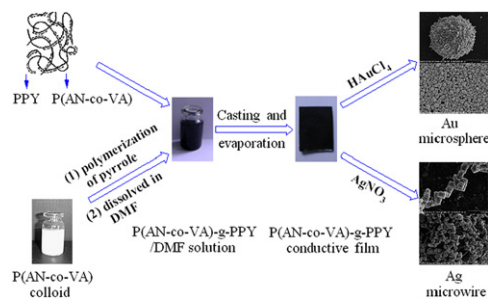
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Youjun He^{a,b}, Guangjin Zhao^{a,b}, Jie Min^a, Maojie Zhang^{a,b}, Yongfang Li^{a,*}^a Beijing National Laboratory for Molecular Sciences, CAS Key Laboratory of Organic Solids, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China^b Graduate University of Chinese Academy of Sciences, Beijing 100049, China
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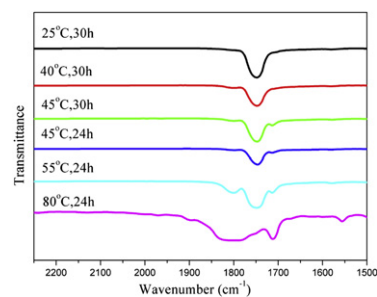
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Jing-Shan Mu^{a,b}, Jing-Yu Liu^a, San-Rong Liu^a, Yue-Sheng Li^{a,*}^a State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China^b Graduate School of the Chinese Academy of Sciences, Changchun Branch, Changchun 130022, China
Synthesis and application of conducting graft copolymer with viable processability

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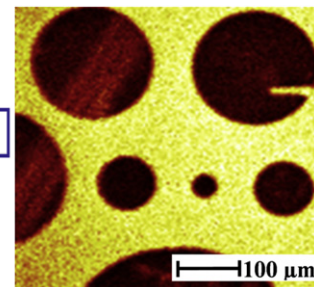
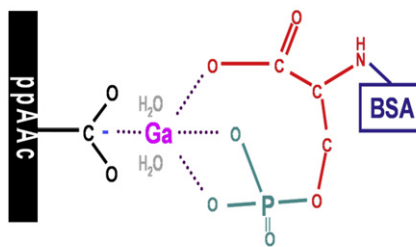
Binyuan Liu^{a,*}, Xin Zhao^a, Hongfei Guo^a, Yanhao Gao^a, Min Yang^a, Xianhong Wang^{b,**}^a Institute of Polymer Science and Engineering, Hebei University of Technology, Tianjin 300130, China^b State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China

A ToF-SSIMS study of plasma polymer-based patterned metal affinity surfaces

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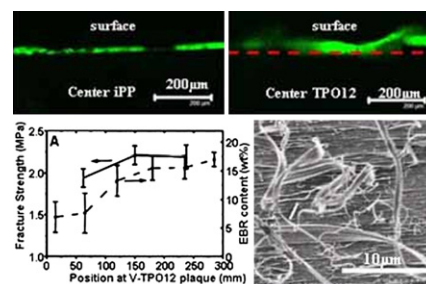


Influence of position and composition on adhesion to injection-molded TPO plaques as model automotive parts

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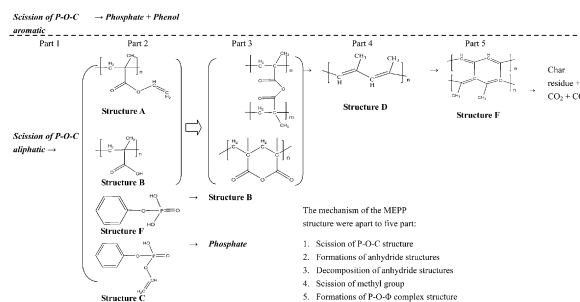


Thermal degradation kinetics and mechanisms of PMEPP and MEPP/MMA copolymer

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Wan-Jung Chou^a, Guo-An Wang^a, Cheng-Chien Wang^b, Chuh-Yung Chen^{a,*}, Jen-Lien Lin^c, Shu-Jiuan Huang^c

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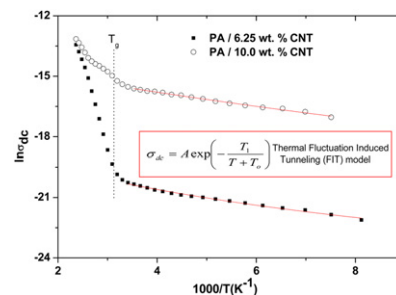


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E. Logakis^{a,*}, Ch. Pandis^a, V. Peoglos^a, P. Pissis^a, J. Pionteck^b, P. Pötschke^b, M. Mičušík^c, M. Omastová^c

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The effect of the glass transition temperature on the toughness of photopolymerizable (meth)acrylate networks under physiological conditions

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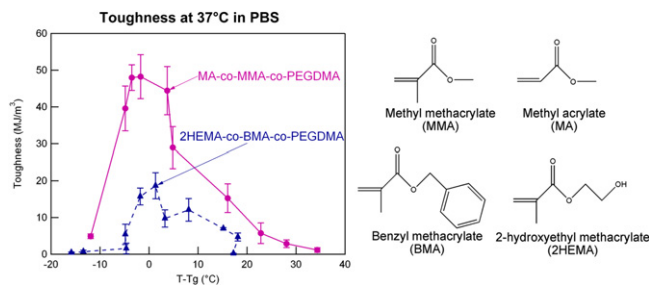
Kathryn E. Smith^{a,*}, Suzanne S. Parks^b, Michelle A. Hyjek^c, Sara E. Downey^a, Ken Gall^d

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New polypropylene blends toughened by polypropylene/poly(ethylene-co-propylene) in-reactor alloy: Compositional and morphological influence on mechanical properties

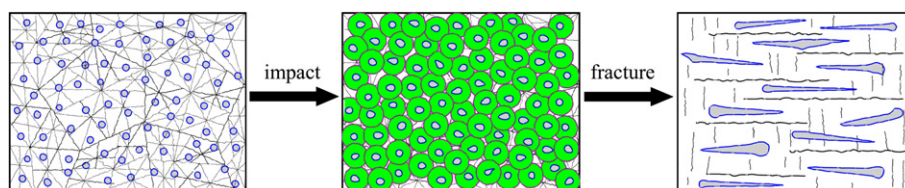
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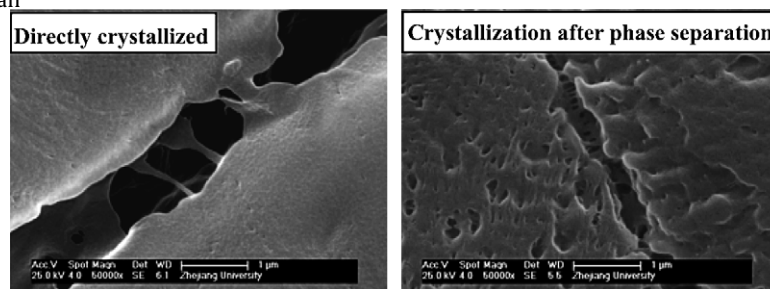
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Ying Li^a, Jun-Ting Xu^{a,b,*}, Qi Dong^a, Zhi-Sheng Fu^a, Zhi-Qiang Fan^{a,b}

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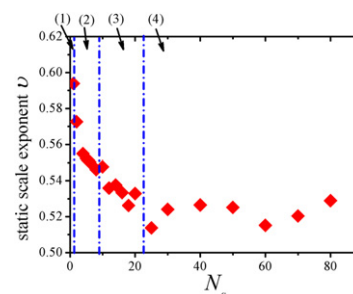
Solvent size effect on the static and dynamic properties of polymer chains in athermal solvents

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Cui-Liu Fu^a, Wen-Ze Ouyang^a, Zhao-Yan Sun^{a,*}, Li-Jia An^{a,*}, Hong-Fei Li^a, Zhen Tong^b

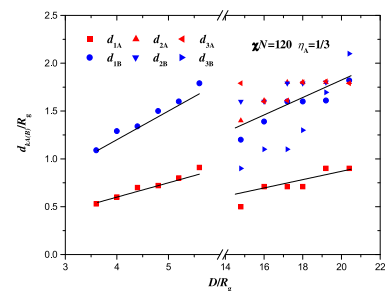
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Concentric lamella structures of symmetric diblock copolymers confined in cylindrical nanopores

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Shiben Li^{a,*}, Xianghong Wang^a, Linxi Zhang^{a,*}, Haojun Liang^{a,b}, Peng Chen^c^a Department of Physics, Wenzhou University, Wenzhou, Zhejiang 325035, China^b Department of Polymer Science and Engineering, University of Science and Technology of China, Hefei, Anhui 230026, China^c School of Chemistry, Anhui University, Hefei, Anhui 230039, China

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