

# Elastomers

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## Recent Publications on Elastomers:

- [A systematic approach for screening glass containers and elastomeric closures for use with parenteral solutions.](#)  
*The purpose of this study is to systematically screen different packaging...*6th September, 2008  
Pharmaceutical R&D, BioPharma Solutions, Baxter Healthcare Corporation,- PDA J Pharm Sci Technol. 2008 May-Jun;62(3):157-76.
- [Smectic-A elastomers with weak director anchoring.](#)  
*Experimentally it is possible to manipulate the director in a (chiral)...*4th September, 2008  
Cavendish Laboratory, Cambridge, United Kingdom.- Phys Rev E Stat Nonlin Soft Matter Phys. 2008 Jul;78(1 Pt 1):011703. Epub
- [Effects of a hindered amine light stabilizer and a UV light absorber used in maxillofacial elastomers on human gingival epithelial cells and fibroblasts.](#)  
*STATEMENT OF PROBLEM: Ultraviolet light absorber (UVA) and hindered amine...*3rd September, 2008  
Dental Research Center, Department of Periodontology, College of- J Prosthet Dent. 2008 Sep;100(3):220-31. ([DOI Direct Link](#))
- [Molecular recognition in bisurea thermoplastic elastomers studied with pyrene-based fluorescent probes and atomic force microscopy.](#)  
*Fluorescence spectroscopy and atomic force microscopy (AFM) measurements...*30th August, 2008  
Eindhoven University of Technology, Department of Chemical Engineering,- Chem Commun (Camb). 2008 Sep 7;(33):3915-7. Epub 2008 Jul 2. ([DOI Direct Link](#))
- [Threading the needle: mimicking natural toroidal catalysts.](#)  
*We examine how intense optical beams can penetrate deeply into highly...*30th August, 2008  
Department of Chemistry, Virginia Tech, Blacksburg, VA 24061-0212, USA.- Angew Chem Int Ed Engl. 2004 May 10;43(20):2602-5.
- [Ultrafast excited-state dynamics of nanoscale near-infrared emissive polymersomes.](#)  
*Formed through cooperative self-assembly of amphiphilic diblock copolymers...*30th August, 2008  
Department of Chemistry, University of Pennsylvania, Philadelphia,- J Am Chem Soc. 2008 Jul 30;130(30):9773-84. Epub 2008 Jul 9. ([DOI Direct Link](#))
- [In vitro cytotoxicity of maxillofacial silicone elastomers: Effect of accelerated aging.](#)  
*The purpose of this in vitro study was to evaluate the cytotoxicity of...*21st August, 2008  
Department of Prosthodontics, Faculty of Dentistry, Gazi University,- J Biomed Mater Res B Appl Biomater. 2008 Aug 19. ([DOI Direct Link](#))
- [Bacterial adhesion to worn silicone hydrogel contact lenses.](#)

*PURPOSE: The aim of this study was to, firstly, investigate whether...*19th August, 2008  
Centro de Engenharia Biologica, Universidade do Minho, Portugal.- *Optom Vis Sci.* 2008  
Jul;85(7):520-5. ([DOI Direct Link](#))

- [Biodegradable and radically polymerized elastomers with enhanced processing capabilities.](#)  
*The development of biodegradable materials with elastomeric properties is...*12th August, 2008  
Department of Bioengineering, University of Pennsylvania, Philadelphia, PA- *Biomed Mater.* 2008  
Sep;3(3):034104. Epub 2008 Aug 8. ([DOI Direct Link](#))
- [Management of open abdominal wounds with a dynamic fascial closure system.](#)  
*BACKGROUND: In damage-control surgery, definitive abdominal closure may...*7th August, 2008  
Department of General Surgery, the Ottawa Hospital, Ottawa, Ont.- *Can J Surg.* 2008  
Jun;51(3):209-14.
- [Ultraviolet-based bonding for perfluoropolyether low aspect-ratio microchannels and hybrid devices.](#)  
*Producing solvent-resistant microfluidic devices is a challenge for...*25th July, 2008  
NNL, National Nanotechnology Laboratory of CNR-INFM, Universita del- *Lab Chip.* 2008  
Aug;8(8):1394-7. Epub 2008 Jun 11. ([DOI Direct Link](#))
- [Engineering of PDMS surfaces for use in microsystems for capture and isolation of complex and biomedically important proteins: epidermal growth factor receptor as a model system.](#)  
*Elastomers based on poly(dimethylsiloxane) (PDMS) are promising materials...*25th July, 2008  
Department of Chemical and Biological Engineering, University of- *Lab Chip.* 2008 Aug;8(8):1357-64.  
Epub 2008 Jun 6. ([DOI Direct Link](#))
- [Nematic elastomers: from a microscopic model to macroscopic elasticity theory.](#)  
*A Landau theory is constructed for the gelation transition in cross-linked...*23rd July, 2008  
Physics Department, Syracuse University, Syracuse, New York 13244, USA.- *Phys Rev E Stat Nonlin  
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- [Bleaching and stimulated recovery of dyes and of photocantilevers.](#)  
*We examine how intense optical beams can penetrate deeply into highly...*23rd July, 2008  
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- [Effect of silica nanoparticles on reinforcement of poly\(phenylene ether\) based thermoplastic elastomer.](#)  
*Reinforcement of a novel poly(phenylene ether) (PPE) based thermoplastic...*23rd July, 2008  
GE India Technology Centre, EPIP Phase II, Whitefield Road, Bangalore- *J Nanosci Nanotechnol.*  
2008 Apr;8(4):2114-26.

## Elastomers Clinical Trials:



- [Clinical Trial of New Elastomer for Maxillofacial Prosthetics](#)  
*Facial Neoplasms; Head and Neck Neoplasms; Head Injuries, Penetrating; Birth Injuries*



## Elastomers Patents:

- 7416497- [Aerodynamic surface geometry for a golf ball](#)
- 7417092- [End-capped polymer chains and products thereof](#)
- 7417093- [Functionalization of olefin/diene copolymers](#)
- 7417106- [Compositions for use in golf balls](#)
- 7417109- [Polymers for delivering nitric oxide in vivo](#)
- 7417111- [Liquid crystalline epoxy resins](#)
- 7417191- [Test plug and cable for a glucose monitor](#)
- 7417315- [Negative thermal expansion system \(NTEs\) device for TCE compensation in elastomer composites and conductive elastomer interconnects in microelectronic packaging](#)
- 7417446- [Probe for combined signals](#)
- 7417787- [Electrophoretic display device](#)
- 7418202- [Article having a birefringent surface and microstructured features having a variable pitch or angles for use as a blur filter](#)
- 7417006- [Catalyst system for the polymerization of olefins](#)
- 7416874- [Recombinant bacterial phytases and uses thereof](#)
- 7416499- [Sports equipment handle](#)
- 7416516- [Reducing facial aging and appliance therefor](#)
- 7416634- [Method and apparatus for processing nanoscopic structures](#)
- 7416735- [Emulsion compositions](#)
- 7416751- [Method of controlling release of N-substituted derivatives of aspartame in chewing gum and gum produced thereby](#)
- 7416776- [Substrates with multiple images](#)
- 7416780- [Flame-retardant composition comprising organophosphorus compound impregnated on a porous support, preparation method and use thereof](#)
- 7416781- [Coatings, methods for producing the same, and the use thereof](#)
- 7416804- [Process for making planar framed membrane electrode assembly arrays, and fuel cells containing the same](#)
- 7416810- [Low contact resistance PEM fuel cell](#)
- 7419102- [Dispenser for scents and aromas](#)
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- 7419397- [High voltage connector assembly](#)
- 7419766- [Flexographic printing plate precursor and imaging method](#)
- 7419941- [Lubricant oils and greases containing nanoparticles](#)
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- 7420010- [Polyethylene compositions](#)
- 7420013- [Mixtures of compounds comprising at least two double bonds and use thereof](#)
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- 7420022- [Polymerization catalyst system utilizing external donor systems and processes of forming polymers therewith](#)
- 7420025- [Elastomeric polymers](#)
- 7420284- [Semiconductor device and manufacturing method thereof](#)
- 7420381- [Double sided probing structures](#)
- 7419723- [Base coating composition for decorated moldings, top clear coating composition for decorated moldings, and decorated moldings](#)

- 7419722- [Heat-radiating sheet and heat-radiating structure](#)
- 7419443- [Low volume cover for a golf ball](#)
- 7419482- [Systems and methods for delivering agents into targeted tissue of a living being](#)
- 7419513- [Benzotriazole/HALS molecular combinations and compositions stabilized therewith](#)
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- 7419555- [Pile weatherstripping manufacturing apparatus and method](#)
- 7419563- [Methods of making medical devices](#)
- 7419570- [Soft, strong clothlike webs](#)
- 7419639- [Multilayer microfluidic device](#)
- 7419677- [Treatment device and method of using the same](#)
- 7419708- [Release sheet capable of thermal transfer recording and pressure-sensitive adhesive tape](#)
- 7421299- [Stimulation electrode and methods of making and using same](#)

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