

Polyurethane Abstracts

- Headlines
- Patents
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HEADLINES

PU Raw Materials

[Growth in Mideast polyols, isocyanates to be strong](#)

Growth in the Middle East toluene di-isocyanate (TDI) and methyl di-p-phenylene isocyanate (MDI) sectors is expected to be robust in 2012 because of the region's rapidly expanding infrastructure and population, market players said....

Published on: **Jan 05, 2012**

Company: -

Raw Materials: Isocyanates

[Ultra-low monomer: meeting the market's needs](#)

The coating and adhesive market is increasingly looking for a combination of consistently high product performance and an improved ecological profile.

Clear advantages in reduced monomer ...

Published on: **Jan 09, 2012**

Company: [Bayer Coatings](#)

Raw Materials: Polyols

[Discover something new in polycarbonate diols!](#)

Sunshine, water and heat are still a challenge for polymeric coating systems. But polyurethane systems formulated with high-quality building blocks such as Desmophen® C polycarbonate diols display the hydrolytic stability, lightfastness, ...

Published on: **Jan 06, 2012**

Company: [Bayer Coatings](#)

[Stepan Company approved as ordinary member of the roundtable on sustainable palm oil \(RSPO\)](#)



In late 2011, Stepan Company was approved as an ordinary member of the RSPO.

What is RSPO?

The Roundtable on Sustainable Palm Oil is a not-for-profit association that brings together stakeholders from seven sectors of ...

Published on: **Jan 09, 2012**

Company: [Stepan Company](#)

Adhesives

[Forbo sells industrial adhesives activities to H.B. Fuller for CHF 370 million](#)

Forbo has signed an agreement with H.B. Fuller Company for the sale of its industrial adhesives activities, including synthetic polymers, part of its Bonding Systems division. This transaction does not include the activities of the ...

Published on: **Dec 31, 2011**

Company: [Forbo Group](#)

Coatings

[Lackwerke PETERS expands its presence in Italy by founding PETERS ITALIA S.r.l.](#)



The demand in Italy for products from the Lackwerke PETERS' range of specialty coatings for electronics – in particular in the lighting and LED design technology sectors – has taken on such positive dimensions that the PETERS Group has ...

Published on: **Jan 03, 2012**

Company: [Lackwerke Peters](#)

Self-healing coatings: relax – no scratch!

The dream of self-healing coatings where scratches simply disappear has come true in applications as varied as car paintwork and office furniture. Raw materials from Bayer MaterialScience form the basis for these self-healing polyurethane ...

Published on: [Jan 08, 2012](#)

Company: [Bayer Coatings](#)

Dispersions

Beneficial binders in glass and carbon fiber size



Glass-fiber reinforced plastics (GRPs) and carbon fiber reinforced plastics (CFRPs) are found in cars, household appliances, sports equipment and numerous other everyday items. But before glass fibers can reinforce plastics, they are ...

Published on: [Jan 09, 2012](#)

Company: [Bayer Coatings](#)

WaterBorne Coatings

Internal activation: Fast-drying waterborne 2K coatings with long pot life



A proprietary Bayer MaterialScience technology known as internal activation has solved the problem of conventionally catalyzed waterborne 2K polyurethane coatings that cure fast but have a short pot life. ...

Published on: [Jan 09, 2012](#)

Company: [Bayer Coatings](#)

Flexible Foams

Foam certifying group CertiPUR-US launches website



The Alliance for Flexible Polyurethane Foam has launched a new website for the CertiPUR-US foam certification program.

The new website at www.certipur.us is part of a new marketing campaign designed to educate ...

Published on: [Jan 05, 2012](#)

Company: [Alliance for Flexible Polyurethane Foam](#)

Sprays

Open Cell Spray Foam Now Officially Recognized by California Energy Commission



At the California Energy Commission (CEC) regular Business Meeting held December 14, 2011, the Commissioners voted unanimously to recognize open-cell spray foam as an accepted insulation in the CEC's 2008 Building Energy Efficiency ...

Published on: [Jan 04, 2012](#)

Company: [the California Energy Commission](#)

Imperial Sugar Partners with SES Foam to Develop "SucraSeal"



SES Foam and Imperial Sugar Company announce the introduction of SucraSeal, an environmentally friendly, open-cell, Class 1 sucrose-based spray foam insulation. SucraSeal is one of the greenest spray foam products on the market with a ...

Published on: [Jan 05, 2012](#)

Company: [SES Foam](#)

Touch 'n Seal Spray Foam Insulation Passes NFPA 286 Room Corner Fire Test

Convenience Products, the manufacturer of Touch 'n Seal Insulating Foams and Sealants for new construction and retrofit applications, announces that its ASTM E-84 Class 1 Flame Retardant spray foam insulations, Low Density (1 pcf) and ...

Published on: [Jan 09, 2012](#)

Company: [Convenience Products](#)

Thermoplastics

Lubrizol Completes Merquinsa Acquisition

The Lubrizol Corp. recently announced that its purchase of Merquinsa is now complete. The addition of Merquinsa, a leader in specialty thermoplastic polyurethanes (TPUs), will reportedly expand Lubrizol's Engineered Polymers business and ...

Published on: [Jan 05, 2012](#)

Company: [Merquinsa](#)

Films & Packaging

Latent-reactive adhesive films: High-quality bond when the heat is on



Latent-reactive adhesive films that are non-tacky at room temperatures but achieve a tacky state at temperatures in excess of 50° C. They bring clear benefits in applications as varied as decorative films or forgery-proof documents. ...

Published on: **Jan 08, 2012**

Company: [Bayer Coatings](#)

Finished Products : Automotive

Ruk Development Releases Heavy Duty Jeep 1 Inch Lift Spacers Machined in High Density Polyurethane

Ruk Development Inc., an innovator and manufacturer of racing inspired high performance products introduces Jeep one inch lift spacers made from high durometer polyurethane. Other spacers are poured with low durometer polyurethane then ...

Published on: **Jan 04, 2012**

Company: [Ruk Development](#)

BASF to Showcase Advanced Automotive Solutions at 2012 North American International Auto Show

As the world's top automakers are unveiling their latest models next week at the North American International Auto Show in Detroit, the world's leading chemical company – BASF – will showcase the increasing role of chemical products in ...

Published on: **Jan 05, 2012**

Company: [BASF](#)

Freudenberg Helps Vehicles Perform Better, From Reducing Noise and Vibrations to Making the Air Inside Cars Cleaner

Freudenberg North America uses technical expertise and cross industry experience to revolutionize 2012 vehicle parts for the automotive industry.

"The Freudenberg family of companies has broad cross-industry ...

Published on: **Jan 09, 2012**

Company: [Freudenberg](#)

Magna Enhances Seating Capabilities



Magna International Inc. announced today that its Magna Seating operating unit acquired the assets and business of Vogelsitze GmbH in Karlsruhe-Stupferich, Germany. Vogelsitze specializes in the development and production of seats for the ...

Published on: **Jan 09, 2012**

Company: [Magna Seating](#)

Finished Products : Bedding

Carpenter Co. Announces New Foam Breakthrough – IsoFresh™



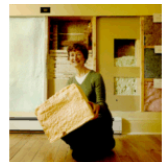
What is the first thing consumers experience when opening up new foam products? A distinct odor is how most consumers would answer that question. Early last year, the scientists at Carpenter Co. were challenged to come up with a better ...

Published on: **Jan 05, 2012**

Company: [Carpenter](#)

Finished Products : Thermal Insulation

Reaping energy savings through REEP Green Solutions



Some people believe cutting large holes in the wall of a century-old home is the best way to show others how to keep heat from seeping out of a house.

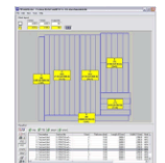
"This is a really great teaching tool," said Mary Jane Patterson, standing in ...

Published on: **Jan 04, 2012**

Company: [REEP Green Solutions](#)

Processing Equipments

FKSlabNester - The perfect software for slab cutting



FKSlabNester is a special software for automatic nesting of different slabs in sheets and afterwards, automatic creation of the belonging cutting line.

The aim is to place the required slabs of an order into the given ...

Published on: **Jan 03, 2012**

Company: [Fecken-Kirfel GmbH & Co](#)

[Wintech International: 2011, an eventful and thoroughly satisfactory year, given the economic conditions of the World](#)



The year 2011 was an eventful and thoroughly satisfactory year, given the economic conditions of the World. Early in the year we relocated the business from a leased property at Cocos Drive to owned property at Dobra Road a ...

Published on: [Jan 05, 2012](#)

Company: [Wintech International Pty Ltd](#)

Industry Update

[Huntsman Settles 3 Suits In Foam Price-Fixing MDL](#)

Huntsman International LLC on Friday settled three suits brought by direct purchasers as part of a long-running multidistrict litigation in Kansas accusing urethane foam makers of conspiring to fix prices.

U.S. ...

Published on: [Jan 03, 2012](#)

Company: [Huntsman International](#)

[SCG-DOW Group Achieves Successful Thailand HPPO Plant Start-up New HPPO facility finalizes start-up with successful full capacity run as planned](#)



The Dow Chemical Company announced today that the SCG-Dow Group, a joint venture between Dow and Siam Cement Group, has finalized the start-up of its new propylene oxide (PO) facility in Thailand by successfully completing its full ...

Published on: [Jan 04, 2012](#)

Company: [Dow Polyurethanes](#)

[2012 plastics predictions](#)

Prediction is derived from the Latin *præ-*, "before," and *dicere*, "to say", and by that standard, PlasticsToday's prognostications for the automotive, medical, bioplastic, moldmaking, and packaging markets meet the minimum definition of a ...

Published on: [Jan 05, 2012](#)

Company: -

[Arkema completes its acquisition of a full range of specialty chemicals from SEPPIC](#)

Announced on November 8th 2011, this project to acquire the specialty alcoxylate business of SEPPIC* was finalized on December 31st 2011 as planned. This specialty chemicals range will enable Arkema to extend its surfactant range and ...

Published on: [Jan 05, 2012](#)

Company: [Arkema](#)

[Brampton firm fined \\$12.5 million for price fixing](#)



A Brampton-based foam manufacturer has been fined \$12.5 million in a high-stakes conspiracy prosecution.

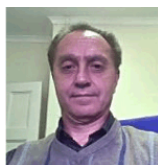
The Competition Bureau slapped Valle Foam Industries and its Montreal-based affiliate Domfoam ...

Published on: [Jan 09, 2012](#)

Company: [Domfoam International](#)

People

[Alf De Vincentiis's Work Gains Recognition From Stanford Who's Who](#)



Stanford Who's Who has the privilege to honor the work of Alf De Vincentiis in the field of production and business management. Alf has been elected to stand among the best professionals in his line work as a result of the determination, ...

Published on: [Jan 04, 2012](#)

Company: [Diverse Urethanes](#)



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PATENTS

Raw Materials: Isocyanates

Method for the purification of isocyanates

Isocyanates are prepared by a process in which a product stream from the isocyanate synthesis is purified.

Published on: **Jan 03, 2012**

Company: [BASF](#)

Process and apparatus for preparing isocyanates

The invention relates to a process for preparing isocyanates by reacting the corresponding amines with phosgene in the gas phase, optionally in the presence of an inert medium, in which phosgene and amine are first evaporated and then ...

Published on: **Jan 05, 2012**

Company: [BASF](#)

Process for preparing isocyanates

The invention relates to a process for preparing isocyanates by reacting the corresponding amines with phosgene, optionally in the presence of an inert medium, in which phosgene and amine are first mixed and converted to the isocyanate in a ...

Published on: **Jan 05, 2012**

Company: [BASF](#)

Raw Materials: Catalysts

Organometallic compositions and coating compositions



The present invention is directed to novel organometallic complexes as catalysts for the reaction of compounds with isocyanate and hydroxyl functional groups to form urethane and/or polyurethane and the process employing such catalysts. More ...

Published on: **Jan 03, 2012**

Company: [King Industries](#)

Raw Materials: Blowing Agents

Foam-forming compositions containing mixtures of cis-1,1,1,4,4,4-hexafluoro-2-butene and 1,1,1,3,3-pentafluoropropane and their uses in the preparation of polyisocyanate-based foams

Foam-forming compositions are disclosed which contain a mixture of cis-1,1,1,4,4,4-hexafluoro-2-butene and 1,1,1,3,3-pentafluoropropane. Also disclosed is a closed-cell polyurethane or polyisocyanurate polymer foam prepared from reaction of an ...

Published on: **Jan 05, 2012**

Company: [E I Du Pont de Nemours](#)

Prepolymers

Method for the continuous production of silane terminated pre-polymers

The invention relates to the continuous production of prepolymers (A) having end groups of the general formula (1): (R.sup.1).sub.a(R.sup.2).sub.3-aSi-X-A, wherein the end groups (1) can be identical or different, A is a two-band link group ...

Published on: **Jan 05, 2012**

Company: [Wacker Chemie](#)

Resins

Polyurethane resin aqueous dispersion and manufacturing method thereof

Disclosed are a polyurethane resin aqueous dispersion of, as dispersed in an aqueous medium, a polyurethane resin obtained through reaction of a polycarbonate polyol (a) at least having a recurring unit represented by the following formula (1) ...

Published on: **Jan 05, 2012**

Company: [UBE Industries](#)

Curable composition

Provided is a curable composition which realizes compatibility between curability and toughness, shows rapid curability and excellent storage stability, and does not require any tin catalyst. The curable composition comprises: (A) a ...

Published on: **Jan 05, 2012**

Adhesives

Degradable adhesive compositions for smoking articles

A filtered smoking article is provided, which includes a tobacco-containing rod surrounded by a wrapping material; a filter element surrounded by a plug wrap adjacent to the tobacco-containing rod; and a tipping material securing the ...

Published on: **Jan 05, 2012**

Company: [RJ Reynolds Tobacco Company](#)

Adhesive

The invention relates to the use of special isocyanate-terminated polyurethane prepolymers in adhesive formulations. Said adhesive formulations can be used in applications wherein a direct or indirect contact of the adhesive layer takes place ...

Published on: **Jan 05, 2012**

Company: [Bayer Materialscience](#)

Sealants

Moisture-hardened polyurethane compositions containing compounds comprising aldimine

The invention relates to compositions which contain at least one isocyanate-containing polyurethane polymer P, which is produced from at least one polyisocyanate and at least one polyol, in addition to at least one aldimine-containing compound ...

Published on: **Jan 03, 2012**

Company: [Sika Technology](#)

Coatings

Aqueous formulation for an antifouling coating system for submerged substrates, method for treating same, and use thereof



The invention relates to a formulation for an antifouling coating system to be applied on submerged substrates. The invention is characterised in that the formulation contains at least 30 wt % of water relative to the total weight thereof, at ...

Published on: **Jan 05, 2012**

Company: [Seawax Marine Coatings](#)

Polyurethane roller coating device for carpet backing

A device for applying a polyurethane mixture to a backstitch side of a greige includes: a tensioning roller rotatable in a first direction; an application roller arranged adjacent to the application roller and rotatable in a second direction ...

Published on: **Jan 05, 2012**

Dispersions

Stable dispersions of inorganic nanoparticles

The invention relates to stable dispersions of inorganic nanoparticles, comprising inorganic nanoparticles in a dispersion medium, the dispersions being admixed with at least one stabilizer from the group of (i) modified, more particularly ...

Published on: **Jan 03, 2012**

WaterBorne Coatings

Low NWP aqueous polyurethane composition

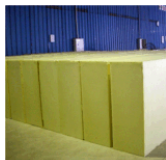
An aqueous composition with a sediment content .ltoreq.5%, comprising a polyurethane dispersion wherein the polyurethane has an acid value in the range of from 25 to 65 mgKOH/g and comprises (i) 36 to 60 wt % of at least one aromatic ...

Published on: **Jan 03, 2012**

Company: [DSM](#)

Rigid Foams

Production of rigid polyurethane foams and the use thereof



The present invention discloses polyol formulations containing a polyester polyol having a functional of 2.5 to 4; an aromatic amine polyol and a polyether polyol having a functionality of 6 to 8. The polyol mixture are useful in making rigid ...

Published on: [Jan 05, 2012](#)

Company: [Dow Global Technologies](#)

Thermoplastics

Crosslinked thermoplastic polyurethane elastomers



This disclosure is directed to crosslinked thermoplastic polyurethane elastomers that include allyl ether side groups in the urethane structure, specifically in the hard segments of the polyurethane polymer, and a free radical source. This ...

Published on: [Jan 05, 2012](#)

Composites

Prepregs and molded bodies produced thereof at low temperature

The invention relates to prepregs and composite components (moulding) produced therefrom at a low temperature, obtainable by using powdery highly reactive polyurethane compositions containing uretdione groups, with specific catalysts.

Published on: [Jan 05, 2012](#)

Company: [Evonik Degussa](#)

Prepregs and molded bodies produced from same

The invention relates to prepregs and composite components produced therefrom (mouldings), obtainable by the use of powdery reactive polyurethane compositions.

Published on: [Jan 05, 2012](#)

Company: [Evonik Degussa](#)

Biomaterials

Degradation resistant implantable materials and methods

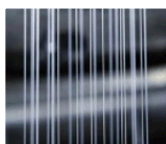
Methods are provided for making materials suitable for implantation in a mammal. The methods include the steps of providing a base material having a desirable surface topography, such as a polyurethane foam, contacting the base member with a ...

Published on: [Jan 05, 2012](#)

Company: [Allergan](#)

Fibers

Polyurethane elastomer fibers and processing agent and method therefor



A processing agent for polyurethane elastomer fibers contains a specified type of dispersion medium having a mineral oil as its essential component in an amount of 80-99.99 mass % and a dispersoid of a specified type made of urethane compound ...

Published on: [Jan 05, 2012](#)

Inks

Ink jet ink, ink jet recording method, and ink cartridge

An ink jet ink containing a pigment and a polyurethane polymer, wherein the polyurethane polymer has units derived from a polyol having no acid group and having the carbon number of 13 or more and 250 or less, a diol having an acid group and ...

Published on: [Jan 05, 2012](#)

Company: [Canon Kabushiki Kaisha](#)

Films & Packaging

Easy adhesion polyamide film and production method therefor

Disclosed is an easy adhesion polyamide film including a substrate polyamide film and a primer layer containing an anionic water-dispersible polyurethane resin, formed on at least one side of the substrate polyamide film. The thickness of the ...

Published on: [Jan 05, 2012](#)

Company: [Unitika](#)

Shape Memory Materials

Items of clothing having shape memory

A method for making items of clothing having shape memory, the method comprising: synthesizing (31) a shape memory polyurethane; subjecting (34) the shape memory polyurethane to wet spinning, dry spinning, melt spinning or multi-component ...

Published on: [Jan 05, 2012](#)

Company: [The Hong Kong Polytechnic University](#)

Nanomaterials

Nanoparticle-modified polyisocyanates

The present invention relates to innovative, nanoparticle-modified polyisocyanates, a process for their preparation and to their use in coating compositions and adhesives. The process comprises the steps of 1) reacting A) polyisocyanates with ...

Published on: [Jan 03, 2012](#)

Company: [Bayer MaterialScience](#)

Finished Products : Footwear

Chemically-treated outsole assembly for a golf shoe

An out-sole assembly for a golf shoe. The outsole assembly includes an internal base member composed of EVA, an inner frame member composed thermoplastic polyurethane subjected to an isocyanate solution, an external base member composed of a ...

Published on: [Jan 03, 2012](#)

Company: [Callaway Golf Company](#)

Finished Products : Sports

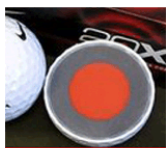
Golf ball incorporating thermoplastic polyurethane

A rebound resilient golf ball having an core layer or layers with one or more cores, a scuff resistant cover of thermoplastic polyurethane surrounding the core layer or layers, and optionally a mantle layer positioned between the cover and the ...

Published on: [Jan 05, 2012](#)

Company: [Nike](#)

Golf balls including crosslinked thermoplastic polyurethane



This disclosure relates to golf balls made from a crosslinked thermoplastic polyurethane elastomer. The crosslinked thermoplastic polyurethane elastomer includes crosslinks located in the hard segments, where the crosslinks being the reaction ...

Published on: [Jan 05, 2012](#)

Company: [Nike](#)

Finished Products : Thermal Insulation

Expandable microspheres for foam insulation and methods

Hollow thermoexpandable particles or microspheres are provided that contain hydrocarbon blowing agents and have a shell polymer that can be softened at the onset of the expansion temperature and solidified at a higher temperature (thermoset) ...

Published on: [Jan 03, 2012](#)

Company: [IP Rights](#)

Flexible heat-insulated conduit and method of making same

A flexible heat-insulated conduit is described, made up of at least one medium-carrying internal tube, an external tube surrounding the at least one internal tube, and a heat-insulating layer based on polyurethane foam or polyisocyanurate foam ...

Published on: [Jan 03, 2012](#)

Company: [Brugg Rohr](#)

Chemistry

Polymer and method of forming a polymer

The present invention provides a method of forming a polymer, the method comprising reacting a first species comprising at least one isocyanate group with a second species comprising at least one aziridine group to form the polymer.

Published on: [Jan 05, 2012](#)

Company: [Adbruf](#)



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TECHNICAL PUBLICATIONS

Biomaterials

[Polyhedral oligomeric silsesquioxane \(POSS\) suppresses enzymatic degradation of PCL-based polyurethanes.](#)

In this Article, we studied the enzymatic hydrolytic biodegradation behavior of a novel multiblock thermoplastic polyurethane (TPU) system, which incorporates polyhedral oligomeric silsesquioxane (POSS) into linear biodegradable thermoplastic ...

Published on: **Jan 09, 2012**

Company: [Syracuse University](#)

Nanocomposites

[Transparent large-strain thermoplastic polyurethane magnetoactive nanocomposites.](#)

Organically modified superparamagnetic MnFe(2)O(4)/thermoplastic polyurethane elastomer (TPU) nanocomposites (0.1-8 wt %) were prepared by solvent mixing followed by solution casting. Linear aliphatic alkyl chain modification of spherical ...

Published on: **Jan 09, 2012**

Company: [The University of Akron](#)

Chemistry

[High Performance of N-Alkoxy carbonyl-Imines in Triethylborane-Mediated Tin-Free Radical Addition.](#)

Triethylborane-mediated tin-free radical alkylation of N-alkoxy carbonyl-imines, such as N-Boc-, N-Cbz-, and N-Teoc-imines, proceeded smoothly at low temperature (-78 degree C to -20 degree C) to give the corresponding adduct in high yield. ...

Published on: **Jan 09, 2012**

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