

MATERIALAK



Trelleborg abre nueva planta de sellados en la India

Fuente: European Rubber Journal

Trelleborg Sealing Solutions is building a production unit in Bangalore, India. The unit is expected to be completed by late 2011 and

Trelleborg abre planta en Rusia para automocion

Fuente: European Rubber Journal

Trelleborg Automotive has established a fully-owned production for anti-vibration products for light vehicles in Nizhny Novgorod, Russia.

Caucho polímero: el material reversible. Una goma autocicatrizante

Fuente: Periódico "El Mercantil Valenciano", domingo 28 de marzo de 2010

La tecnología molecular para el polímero, que se puede cortar y separar y que después se puede unir con la presión de los dedos sin que pierda la fuerza y la elasticidad del producto.

Nuevos materiales inteligentes cambian de forma y mejoran procedimientos médicos

Fuente: <http://www.plataformasinc.es/index.php/esl/Noticias/Nuevos-materiales-inteligentes-cambian-de-forma-y-mejoran-procedimientos-medicos>

Dentro del proyecto IBE-RM, una de las aplicaciones concebidas para el sector médico es una pinza quirúrgica hecha de un polímero hidroactivo que se cierra en contacto con la humedad. Esta pinza podrá ser utilizada como extremo de catéter en intervenciones menos invasivas.

Rogan compra dos máquinas de LSR

Fuente: Rubbernews

Rogan Corp. has purchased two Sodick injection presses, with a third one coming later this year, as the company expands liquid silicone molding operations for medical at its plant in Northbrook.

Italian hose maker sets up in Macedonia

Fuente: European Rubber Journal

Italian high pressure hose maker, TeknoHose is setting up a new manufacturing plant in Macedonia. The company expects to invest Euro 10 million

Hygienic wall claddings - A no entry zone for microbes

Fuente: Omnexus

Preventing unhealthy microorganisms from flourishing is crucial, especially in places where mass food preparation is carried out. Bilby Plastics in the UK has come forward with a sanitizing solution to keep the surroundings clean, in the form of hygienic wall claddings, that are available in sheet and trim forms.

These claddings are made of polyvinyl chloride (PVC) and propylene (PP), which are easy to cut and shape. PP wall cladding is ideal for applications where fire resistance is not a priority, but where hygiene is critical, for example: catering firms, hospitals, agricultural places, dairies, food storage areas, etc. As a bonus, these easy-to-use clads come with matching skirting and panels, and are available in a wide range of colors, thicknesses and sizes. They also show excellent impact strength down to a -20°C and carry a specific Class fire rating (BS476).

NuSil Introduces A New Fluorosilicone High-Consistency Rubber

Fuente: omnexus

CARPINTERIA, California -- NuSil Technology LLC, a company that deals in silicone materials for the aerospace, aircraft, electronics and photonics industries, has announced the release of FS-3781, a customizable, fluorosilicone, high-consistency rubber (HCR) for applications requiring solvent resistance in the aircraft and automotive industries.

FS-3781 offers resistance against solvents such as hydrocarbons, jet fuel, kerosene, gas and diesel and has a broad operating temperature range. This material offers the convenience of a long work time and does not require mixing or de-airing because it is a one-part pre-catalyzed silicone system. As an HCR, FS-3781 is ideal for calendaring, extruding, and transfer and compression-molding parts such as gaskets, o-rings, stoppers and seals.

"FS-3781 is a unique moldable and extrudable fluorosilicone that allows for the creation of custom-molded, solvent-resistant parts for various applications," said Bill Riegler, Product Director - Engineering Materials.

NuSil can incorporate functional fillers into FS-3781 to achieve electrical or thermal conductivity and is able to create custom-molded parts per customer specifications. In addition, NuSil has the capabilities to match PMS or Federal Color Standards.

Casas prefabricadas ecológicas

Fuente: http://www.consumer.es/web/es/medio_ambiente/urbano/2010/05/12/193022.php

Hacerse una vivienda ecológica, barata y original en menos de ocho días es posible. Algunos diseñadores han creado modelos de casas prefabricadas ecológicas basados en toda clase de materiales ecocertificados y reciclados (incluso papel), con sistemas que ahorran energía y aprovechan el sol o la lluvia. Los precios son económicos. No obstante, antes de montar una casa prefabricada ecológica, conviene estudiar sus posibles inconvenientes y asegurarse de que es respetuosa con el medio ambiente.

Nuevas máquinas de producción de nanofibras a escala de laboratorio e industrial

Fuente: http://www.eenbasque.net/index.php?option=com_content&task=view&ide=7937&id=191&Itemid=222

Una empresa turca del sector textil especializada en la industria de nanotecnología está desarrollando máquinas de electrospinning a escala de laboratorio e industrial que permiten producir nanofibras con diversos tipos de polímeros. Las nanofibras se aplican en los sectores de automoción, medicina, alimentación, textil o filtración de aire y líquidos, entre otros. Los revestimientos de nanofibra ofrecen una alta porosidad. La capacidad de producción de la máquina es de 5000 gr/día. La empresa, que trabaja con universidades y centros de investigación, busca socios para establecer acuerdos comerciales con asistencia técnica.

Philips Selects Multibase Micro-Talc Material for its New Coffee Machine

Fuente: Omnexus

SAINT LAURENT DU PONT, France -- During summer last year, Philips Consumer Lifestyle B.V. presented its new SENSEO® Quadrante coffee machine. After several trials with basic polypropylene copolymer and mineral-filled polypropylene copolymer, where both materials do not fulfill the shape's design and mechanical requirements (stiffness, shrinkage and gloss), and in order to keep machines aesthetics without leaving behind the technical properties (grained part and high-performance material), Philips and PEZY have jointly pointed their search on new material.

Philips Consumer Lifestyle's New Senseo® coffee machine

As referenced supplier at Philips Consumer Lifestyle, Multibase was solicited for proposal with a product that could fulfill parts needs (lid, front and drip tray of the coffee machine).

Besides specific mechanical properties (HDT, flexural modulus, tensile and elongation at yield), Multibatch® micro-talc masterbatch appears to be the best compromise in terms of stiffness, shrinkage and aesthetical requirements. Key technical benefits at processing were the dosing flexibility on the molding machine that helped mastering the differentiated shrinkage behavior on parts. Mastered shrinkage, nice surface finish and easy coloring led to the perfect fit on the coffee machine.

This was made possible by a collaboration between De Monchy International B.V., Philips' channel partner in The Netherlands, Philips Consumer Lifestyle, and Pezy Product Innovation, specialized in design and engineering of complex plastic parts (the moldmaker based in Portugal and Molder in Poland).

New technology for luxury decorative effects

Fuente: Omnexus

The material producer DuPont has improved its innovative Surlyn® 3D overmolding technology (3D for Design, Decoration and Depth) in order to offer greater design freedom to the packaging of cosmetic and perfume products. The Surlyn® 3D technology involves the overmolding of a single or multilayer polymer inner container with glass-like transparent, highly-durable Surlyn® resins. It consists of two manufacturing steps including two different processing techniques: the inner container can be mono- or multi-layers and made of different materials such as polypropylene (PP) or copolyesters depending on the required barrier performance and chemical resistance, as well as the desired decorative effects. It is manufactured by extrusion blow molding, injection blow molding or the assembly of injected molded parts. The inner container is subsequently overmolded with Surlyn® by injection molding using a unique process developed and patented by the DuPont affiliate in Japan, MDP (DuPont Mitsui Polychemicals). The Dupont patented technology enhancements include new shapes and colors for the inner and outer containers as well as new material combinations for improved barrier properties and chemical resistance according to the cosmetics ingredients and applications.

Metalocaucho avala su crecimiento en la especialización en el ferrocarril

Fuente: NuevaGestión.com Euskadi

Metalocaucho S.L., firma guipuzcoana que diseña y produce elementos de caucho metal para los sistemas de suspensión y control de vibraciones para vehículos de superficie, tiene previsto invertir este año 300.000 euros en su planta de Urnieta para la adquisición de nueva maquinaria que le permita abordar series más amplias de piezas destinadas al sector ferrocarril.

Trelleborg vende su actividad de conducción de fluidos

Fuente: European Rubber Journal

Trelleborg vende su sección de conducción de fluidos para automoción a la alemana Bavaria Industriekapital AG por 38M\$

Exkal, innovación en cámaras frigoríficas para alcanzar el éxito

Fuente: <http://www.navarrainnova.com/es/actualidad/noticias-ciencia-y-tecnologia/2010/05/30/19734.php>

Las claves del éxito de esta empresa navarra empiezan en el mismo diseño de su producto. Los materiales que emplea son totalmente ecológicos, se pueden reciclar después de su vida útil y además, son viables económicamente para el cliente final. Satisfacer las necesidades a las generaciones actuales sin comprometer las necesidades futuras. Esta frase extraída de la declaración de la cumbre medioambiental de Río de Janeiro se encuentra dentro de la misión de la empresa. Y para dar ejemplo, la fábrica de Marcilla se autoabastece con placas de energía solar instaladas en el techo de las instalaciones.

Gosei Nakagawa se introduce en el sector del invernadero

Fuente: Estrategia Empresarial

La empresa alavesa Gosei Nakagawa, especializada en inyección de plástico, acaba de diversificar su cartera de productos con su introducción en el mercado de los invernaderos, con un novedoso producto denominado Plabone. El departamento de I+D de Gosei Nakagawa ha desarrollado una innovadora y flexible estructura de plástico de fácil montaje que es similar al sistema Lego, con el objetivo de que cualquier persona pueda crear su propia huerta a medida y cultivar en casa alimentos orgánicos. La nueva estructura de invernadero se adapta a jardines, terrazas, azoteas o pequeños balcones. Además su adaptación también ofrece la posibilidad de emplear el invernadero para la protección de plantas y flores, resguardándolas de las posibles inclemencias meteorológicas.

Desvulcanizador de caucho abre su primera planta en EEUU

Fuente: European Rubber Journal

Watson Brown HSM Canada Ltd. Abre su primera planta de reciclaje de caucho en Mississauga, EEUU.

Contitech entra en la inyección soplado

Fuente: European Rubber Journal

ContiTech Fluid Technology entra en la producción de productos plásticos por medio de la inyección soplado en su planta de Waltershausen, Thüringia, Germany.

Kraiburg lanza un TPV que soporta 170°C y aceites.

Fuente: European Rubber Journal

Kraiburg lanza el HIPEX con resistencia a 170°C y aceites. Desarrollado conjuntamente con LANXESS, busca optar a aplicaciones con requerimientos importantes en el mundo de la automoción.

RTP introduce nuevos TPEs biocompatibles para el sector médico

Fuente: Omnexus

RTP ha introducido en su oferta de material TPE unos termoplásticos elastómeros estirénicos biocompatibles para el sector médico. Estos materiales cumplen con la norma de biocompatibilidad ISO 10993-5/10/11, y están disponibles en durezas que van de 30 a 80 Shore A

Patente de compounds para obtener extracciones de molde más fáciles.

Fuente: Omnexus

Patent - The quality of molded parts and the molding speed can be greatly improved by improving the releasability of plastic parts from stainless steel molds. This invention provides new chemical compositions and processes for preparing mold release films and applying the films to the surfaces of stainless steel molds. The mold sealer compounds may contain additional additives, such as slip agents (e.g. functional or nonfunctional siloxanes), emulsifiers, pH modifiers, dyes, catalysts, biocides, cure modifying agents, fillers, viscosity modifying agents and combinations. For example, a mold sealer composition was prepared by combining 1 weight% n-(2-aminoethyl)-3-aminopropylmethylmethoxysilane, 0.17-0.5 weight% triethylamine, 0-0.0723 weight% Silwet 7605, 0-0.0723 weight% Tomadol 900, 0-0.0723 weight% T-Maz 20 and 0-0.0723 weight% Dowfax 2A1. Four coats of the mold sealer composition were applied to a pair of metal panel (stainless steel) using a spray gun, and allowed to cure for 10 min at 325°F. Tests showed excellent releasability properties on stainless steel as compared to the controls. Publicación: WO 2010022133 A2

El PEEK sustituye al acero en aplicaciones hidráulicas

Fuente: Omnexus

The German company Parker Hannifin, a world leader in the manufacture of motion and control technologies and systems for the mobile, industrial and aerospace markets, was aiming to re-design its RSD quick couplings in order to reduce the number of assembled components and consequently reduce the production costs. Its main runway of improvement was the replacement of the steel components with one single injected molded thermoplastic component. It is the reason why Parker Hannifin has selected a polyetheretherketone (PEEK) material i.e. a Victrex® grade from Victrex because it retains its mechanical properties even in aggressive environment at high temperatures. The newly-developed PEEK valve has allowed to minimize the number of components in motion during connection and disconnection, which improves reliability. The shape of the clip combined with the elasticity and high fatigue resistance ensures a reliable and durable connection of the pressurized male connector. In short, the use of PEEK permits to offer an entirely innovative, patented design and to produce parts that are particularly valued for their pressure-resistant characteristics and their compactness.

Softer amplia su gama de productos para deporte

Fuente: British Plastics and Rubber

Italian thermoplastic elastomer specialist SO.F.TER has acquired another niche elastomer business. It has bought the Terra brand of TPEs used for the infill of artificial turf systems, and all related patents and approvals, from DSM. In January SO.F.TER took over Radici's Heraflex P elastomeric polyolefins business for winter sports footwear.

Backing the new agreement SO.F.TER has entered a partnership with Terra Sports Technology for Terra Sports to continue to market the Terra products in the same way as it did with DSM. Terra TPE infill has been used on more than 250 pitches, 20 of which are FIFA 2 Stars rated.

The acquisition of the Terra brand strengthens SO.F.TER's presence in sports flooring, for which the company also produces its Forgrin branded infill pellet. By combining the Terra and the Forgrin product lines SO.F.TER says it can fulfil the international FIFA requirements as well as the Italian and Dutch Soil regulations on infill materials, and it becomes the leading manufacturer of newly produced infill materials for artificial turf systems, with a sales forecast for the combined business of Eur 5 million for 2010.

Radici se deshace de parte de su negocio de TPE

Fuente: British Plastics and Rubber

Part of the Heraflex TPE range produced by RadiciGroup in Italy has been transferred to TPE specialist SO.F.TER. The agreement, for SO.F.TER to produce Heraflex P elastomeric polyolefins specifically for winter sports footwear, is part of a rationalisation by Radici which led to the closing of the Radici Elastomeri production site (formerly Valerio Franceschetti Elastomeri) in Provaglio d'Iseo, Italy. All of Radici Elastomeri's technical and commercial know-how for this product goes to SO.F.TER.

Radici is retaining its other Heraflex materials, Heraflex A (SEBS) and Heraflex B (SBS), which are produced at its German site, and Heraflex E TPE-C copolyester thermoplastic elastomers.

Arburg simplifica la microinyección por medio de una unidad de inyección de dos husillos

Fuente: European Plastic Product Manufacturer

Arburg, one of the leading global manufacturers of injection moulding machines, has developed a new micro injection module which helps to minimise these complexities. It combines a small injection screw with a second screw for melting the material. Unlike other alternatives on the market — which use a combination of screw plasticising and piston injection — the two screws "share" the preparation, dosing and injection of the material. A servo-electrically driven screw pre-plasticising section, which is installed at 45 degrees to the horizontal injection unit, ensures standard granulates are prepared under ideal conditions.

Una empresa italiana busca partners tecnológicos para la identificación del comportamiento de plásticos en procesos de soldadura

Fuente: http://www.eenbasque.net/index.php?option=com_content&task=view&ide=7774&id=192&Itemid=223

Una empresa italiana busca una tecnología para soldar materiales de plástico en un proceso industrial basado en láser de estado sólido. El principal objetivo es soldar dispensadores de plástico y/o botellas mediante un sistema de procesamiento industrial totalmente integrado. También pueden investigarse otras aplicaciones del proceso. La tecnología se basa fundamentalmente en la correcta integración entre las características del láser y las propiedades térmicas y mecánicas de los plásticos para ofrecer una soldadura perfecta. La empresa busca empresas o centros de investigación especializados en comportamiento de materiales de plástico para seleccionar los parámetros del láser más apropiados para soldadura láser de plásticos.

Arboform: una alternativa al plástico derivada de la madera

Fuente: http://ec.europa.eu/environment/etap/inaction/showcases/germany/517_es.html

La compañía alemana Tecnar ha desarrollado un polímero orgánico biodegradable fácilmente deformable, con el nombre de «Arboform», que tiene las mismas propiedades de la madera pero que, al mismo tiempo, puede ser procesado como un plástico. Jürgen Pfitzer y Helmut Nägele recibieron el Premio Inventor Europeo 2010 en la categoría Pymes/Investigación por el desarrollo de la innovadora «madera líquida» Arboform. Este polímero está basado en lignina derivada de la madera y está constituido en un 100% por materias primas renovables, lo que supone un ahorro tanto de combustibles fósiles como de recursos naturales