



Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

jeudi 26 novembre 2020

Research & Patents

Design and construction of floating modular photovoltaic system for water reservoirs



In May 2018, the Housing & Development Board (HDB) of Singapore piloted the first locally-designed 100 kWp floating photovoltaic system at the world's largest floating photovoltaic cell test-bed in Tengeh Reservoir. This paper presents the various aspects in the development of the floating modular photovoltaic system. This innovative system comprises a number of standardised floating modules made of high density polyethylene (HDPE) that serve as either photovoltaic (PV) panel floaters or maintenance walkways.

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Effects of thermo-oxidative aging on structure and low temperature impact performance of rotationally molded products



In this work, the effects of thermo-oxidative aging on the microstructure and impact properties of polyethylene during the rotational molding process were studied. FTIR and Raman analysis showed that the degradation of polyethylene was responsible for the low-temperature impact strength (LT-IS) and the brittle fracture behavior of samples those subjected to prolonged heating time during rotational molding process. The DSC and polarizing microscope analysis showed that the degradation process was delayed by the addition of antioxidants. Through use and optimization of antioxidants, the thermo-oxidative aging of polyethylene can be modulated, a broader processing window can be achieved, and the products may exhibit

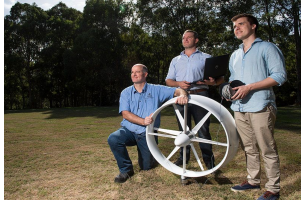
better mechanical properties with a wider heating time range.

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Rotomolding Market News - Australia

Spin to win: turbine tech company proving itself to telco customers

23/11/2020

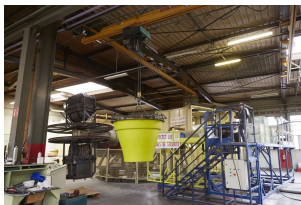


Australian engineering research has cracked the problem of diffuser design, allowing a doubling of efficiency for wind turbines, according to Diffuse Energy. Brent Balinski spoke to the company's CTO and co-founder, James Bradley. "It's not really kind of an advanced manufacturing play. We're using fairly well-trodden paths to make the components. For example, a diffuser is rotomolded. So like you would a water tank or a wheelie bin. So I guess for the company in Sydney who does the role of molding, which is Rotadyne, for them to be making a part of a cool little wind turbine is a bit different for them and a stream of revenue that they otherwise wouldn't have."

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Rotomolding Market News - Europe

A plastic cat for when it's time to go number 2, is one of the many products made by this Puy-de-Dôme-based company



A company based in Aigueperse, in the french Puy-de-Dôme region, specializes in rotational molding to transform plastics resins. The company makes products for the boat or the funeral industries. It also produces a plastic cat that can be used to facilitate defecating. (Translated from French)

Click here to read more : france3-regions.francetvinfo.fr

Equiplast desvela los ganadores de la primera edición de sus premios Plástico



The Equiplast tradeshow was eventually made virtual and thus was held from November 16th to November 20th. It is in this unprecedented context that a digital debate was organized by the show organizers Expoquimia, Eurosurf and Equiplast of the Fira de Barcelona. It was also an opportunity to reveal the winning projects of the first edition of the Equiplast - Shaping The Future Awards, which aim to highlight circular economy projects of the plastics industry. The Award for recycled materials was given to Rototank's R&D project : "From injection to rotational molding". (Translated from Spanish)

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Rotomolding Market News - North America

People in plastics, week of Nov. 23, 2020



FERRY INDUSTRIES INC. — The rotational molding machinery supplier in Stow, Ohio, named Courtney Mahan chief financial officer.

PELICAN PRODUCTS INC. — The maker of high-performance protective cases in Torrance, Calif., named Brad Antoine financial planning and analysis vice president.

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What it will take to move and store millions of doses of COVID-19 vaccine **TVO.org**

23/11/2020



There has recently been some promising COVID-19 vaccine news: a couple of candidates could become available by the end of this year. But there's a catch. The vaccines require extremely cold temperatures during transport and storage to remain viable. So dealing with them will involve what is known as "cold-chain logistics" — the movement and warehousing of goods that must be kept at low, sometimes ultra-low, temperatures. TVO.org spoke with Paul Greco, president of 360 Medical, a cold-chain-logistics manufacturer, distributor, and retailer based in Schomburg, about freezers, organizational challenges, and why he thinks the military should lend a hand. According to him, rotomoulded foam coolers and dry ice will keep this stuff at the right temperature.

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Goat modular cooler packs survival gear along with food and drink

24/11/2020



It turns out 2020 isn't just the host year of Goat BoxCo's launch, it's an inspiration behind it. "If 2020 has taught us anything, it's that life is unpredictable," said company founder Jack Robbins. "Our mission at Goat is to equip people everywhere with the smart tools and essentials they need to live ready." That means pushing the cooler beyond mere icebox and making it a gear box and campsite hub. The Hub 70 looks like your typical modern cooler in a number of ways — heavy-duty rotomolded construction, thick clasp closures and rope handles — but differs dramatically in form. Instead of your basic rectangular box, the Hub 70 extends out at the corners via turrets, each of which has a slot to accommodate a gear storage Can.

Click here to read more : newatlas.com