



Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

jeudi 22 avril 2021

Research & Patents

Rotational molding parameters of wood-plastic composite materials made of recycled high density polyethylene and wood particles



Recent investigations have demonstrated that it is possible to incorporate different natural fibers in the rotational molding process. In this perspective, the main purpose of this work is to study the influence of rotational molding parameters on the sintering process of composite materials made of recycled high density polyethylene and wood particles. To achieve this, an experimental procedure of three molding stages was elaborated to make wood-plastic composite materials. At each stage, it was studied the effect of a certain molding parameter on mechanical properties, while the other parameters remain constant during the molding process.

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ROTATIONAL MOLDED NARROW BEAM CATAMARAN WITH MODULAR ATTACHMENTS



A narrow beam rotomolded foam filled catamaran that incorporates regular points of attachment through the deck and a tubular frame that is highly customizable with modular accessories making it ideal for maneuverability, stability, durability, transportation, storage, and customization.

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Multi-Compartment Liquid Transfer Unit



The invention is based on using existing approved tanks and shipping containers for transportation of liquids. It is a combination rotomolded plastic tanks customized for industrial, petrochemical and agricultural applications placed in a secured standard shipping container (20'/40'/53'). As well as custom outfitted with inlets and outlet for top and side filling and extraction from the bottom side. The tanks are equipped to be bolted on the floor or braced from the sides of the container. Each tank is elliptically shaped outfitted with four legs for stability. The top center of the tank has an inlet which also functions as ventilation for the tank. The inlets are custom made to ensure easy access for top loading and side loading purposes. The extraction will be from the bottom of the tank and run to the exit access doors to the side of the container.

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FLEXIBLE ROTATIONALLY MOLDED ARTICLE



Rotomolded articles, especially flexible rotomolded articles are made from an ethylene interpolymer product having a melt index, 12 of from 2.5 to 8.0 g/10min, a density of from 0.905 to 0.920 g/cm³; and a Dilution Index, Yd, greater than 0. The ethylene interpolymer product comprises: (I) a first ethylene interpolymer; (II) a second ethylene interpolymer, and; (III) optionally a third ethylene interpolymer.

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Rotomolding Market News - Europe

Tackling today's wastewater treatment challenges of energy-efficiency, environmental impact, and long-term reliability



BIOROCK has announced the launch of BIOROTOR, an innovative new RBC (Rotating Biological Contactor) system. The new system is designed to tackle today's wastewater treatment challenges of energy-efficiency, environmental impact, and long-term reliability. BIOROTOR is the first completely modular wastewater system. Combining all processes in one package ensures it's far more efficient, reliable, and cost-effective than current wastewater treatment systems. The modular design also allows engineers to install BIOROTOR in a series. This gives it a capacity up to 10,000 PE - enough to serve sites up to the size of a village.

Click here to read more : www.pollutionsolutions-online.com

What Once Seemed Impossible Is Now the Costume Sofa System

16/04/2021



The Costume sofa system, designed in a collaboration between Magis and Stefan Diez, is a pragmatic, transformable furniture. The Costume sofa system doesn't require its individual components be permanently attached to one another, making it easy to dismantle. Its elements consist of a body made from recycled and recyclable polyethylene produced using rotational-molding technology from furniture and car industry waste.

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Rotomolding Market News - North America

Enjoy Margaritas On The Go With The BruMate BackTap

19/04/2021



You can think of the BruMate BackTap as a cooler or a beer keg made for the outdoor enthusiast. Aside from your favorite spirits, it can hold practically any beverage and keep it fresh-tasting for hours. That's because of its stainless steel, insulated interior that ensures drinks stay ice-cold and fresh without harboring bacteria. The interior is even removable and washable so you can keep it clean. Meanwhile, its rotomolded plastic exterior guarantees durability so it can withstand any adventure.

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Non classé(s)

Local company won the fight against the pandemic and achieved strong expansion in the international market

20/04/2021



Local company Crucijuegos is achieving strong expansion in the international market, despite the economic recession caused by the pandemic and the extensive quarantine that occurred in Argentina in 2020. After the construction of a new production plant, the rotomolding firm decided to open itself to new export markets. (Translated from Spanish)

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Work began for the first stage of the remodeling of the Parque Soñado de los Niños in Lago del Fuerte, in Argentina



Stalls will be built in order to set up a new game structure (the Paraná galleon ship). This must be done in coordination with the team that will be in charge of placing the structure, since it will provide the corresponding instructions to facilitate the installation. The proposed game must emulate in scale proportions of a pirate ship. The main structure will be made of pipes with sufficient diameters and thicknesses, curved and rolled, not having any corner or 45 degree angles; anti vandalism bolting with plastic protectors; a modular floor built in sheet metal with non-slip texture and drainage holes; stairs made of two-millimeter sheets, and plastic pieces made of medium-density polyethylene by rotational molding. (Translated from Spanish)

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