



Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

jeudi 9 septembre 2021

Events

A project to create a production planning tool dedicated to rotational molding



There's a project to create a production planning tool dedicated to rotational molding. On 10-01-21, an online session will be held exclusively for AFR members. We invite them to discover a solution envisaged by the Working Group made up of 8 Rotomoulders who have studied different options, following the specifications established by them, specifying the data necessary for the construction of such a tool:

- Input data (machines, molds, and parts ...)
- Output data (assembly and planning assistance, customer deadlines, evaluation of the machine load rate, calculation of the number of operators required, etc.)
- And also, recommendations for use (for example, link or not with different ERP solutions).

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Machinery & Process

XXL-proof additive manufacturing



On the one hand : Wine & Tools, specialized in wine making technologies. And on the other hand : VLM Robotics, IREPA LASER and Siemens to design the additive manufacturing solution for the production of the XXL mold intended to produce wine tanks by rotational molding for Wine & Tools. (Translated from French)

Click here to read more : new.siemens.com

Research & Patents

Rotational-Moulded Building Blocks for the Circular Economy



Throughout the combination of unique approaches on innovative polymer composites and rotational moulding plastics processing technique, we developed a building block using a mix of recycled and virgin plastic. This block was a technical case study from a multidisciplinary approach - comprising materials science, polymers processing and design - to reinsert recycled plastics in the Circular Economy. The aim was to produce a three-dimensional interlockable block, combining unique design and unconventional materials to create an emblematic building element. We investigated the composition and availability of local plastic waste, as well as other waste-stream materials – concrete waste, red mud, hemp fibre, sugarcane bagasse. We prepared a range of composites and blends to test their prospective aspect and processability. To simulate the end-result of a rotationally-moulded part, we prepared samples of the blends in an oven. The thermal analysis showed that all materials were thermally stable at the processing temperature of the virgin polymer in rotomoulding, around 200 °C. There were an evident LLDPE continuous-phase and a recyclate dispersed-phase. We also explored the aesthetic effect of scattering particles of colour in the mixes. The impact test showed better results for the polyethylene-based recyclates if compared to polypropylene and poly (ethylene terephthalate) ones. We concluded that waste materials could be revalued into something practical and reproducible, produced by rotational moulding plastics processing. And we developed a viable and innovative potential product for the Circular Economy, requiring minimal fixing and no further external finishing.

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ROTOMOLDING COMPOSITION



A rotomolding composition comprises a blend of two polyethylenes: 1) a well stabilized polyethylene; and 2) a poorly stabilized polyethylene having a very low flow rate. The poorly stabilized polyethylene is further characterized by having a large particle size (from 500 to 3000 microns). Rotomolded parts prepared from the composition have a rough inner surface. Polyurethane foam adheres well to this rough surface.

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Rotomolding Market News - Asia

Rainbow Productions to make debut at Saudi Entertainment and Amusement Show 2021 – Park World Online



As one of the World's leading manufacturers of costume characters and mascots, Rainbow Productions will be making its debut appearance at the Saudi Entertainment and Amusement (SEA) Show, which is taking place from 7-9 September 2021. SEA Expo is the first exhibition that Rainbow will be taking part in since the lifting of COVID restrictions and is an exciting opportunity for the UK firm to showcase their new services and increase their market presence in the GCC. During lockdown, the mascot specialist invested in staff training and acquired new innovative methods of rotational moulding and digital manufacturing technology. According James Barlow, Export manager, the company has predominantly produced lightweight structured foam heads until now, but the addition of rotational moulding will now give clients the option of lightweight solid resin heads. Along with new fabrics which are also now available to clients, these investments provide Rainbow with a long-term global competitive edge and allows them to remain at the forefront of worldwide costume character manufacture. Rainbow Productions is already well-established in the Middle East, having had the honour to work with many of the region's theme parks including Ferrari World, Global Village, IMG World of Adventures and Warner Bros. World Abu Dhabi. Most recently they have created mascots for all sixteen clubs in the Saudi Professional Football League.

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