



Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

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Research & Patents

Reprocessed Materials Used in Rotationally Moulded Sandwich Structures for Enhancing Environmental Sustainability: Low-Velocity Impact and Flexure-after-Impact Responses



In the rotational moulding industry, non-used, scrap, and waste purge materials have tremendous potential to be reprocessed and applied in skin-foam-skin sandwich structures to replace and reduce the use of virgin polymers. This approach not only encourages the re-use of these waste materials but also significantly contributes to reduce environmental impacts associated with the use of virgin polymers in this sector.

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Mesoscale modelling of polymer powder densification due to thermal sintering



A mesoscale model is proposed for the density evolution of an initially low density polymer grain powder which becomes compacted by heating above its melting point. There are two main contributions. First, we present a rigorous generalization of the Mackenzie and Shuttleworth model to predict the density evolution of a porous representative volume element containing multiple spherical cavities of various sizes. Second, we propose a novel development linking the evolution of the

sintering angle in the two-grain models of Frenkel and Bellehumeur et al. to the density of a set of multiple interacting grains.

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Rotomolding Market News - Australia

Terracorp is now the Territory's top supplier of water storage solutions



Darwin-based Terracorp Industries, the top provider of innovative water storage solutions in the Territory, is producing a wide range of superior rotationally-moulded poly products at its Yarrowonga headquarters for all domestic, rural, agricultural, commercial and industrial water use projects. Terracorp is the Territory's leading manufacturer and supplier of poly water tanks – with sizes ranging from 550 litres to 30,000 litres. The company is also producing waste management products, firefighting units, spillage bunds, tubs, troughs, gear covers, and inspection pits, among others.

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Rotomolding Market News - Europe

Rigiflex: innovation at the service of boat building



The French company Rigiflex is a designer and builder of rowing boats and semi-rigid boats for sea fishing, freshwater fishing, leisure and pleasure boating. It also offers a range of workboats that are particularly well known in the field of civil security. Its ambition is to deliver increasingly reliable, high-performance and innovative units.

Click here to read more : www.tcm-rennes.org
