



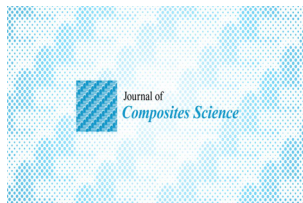
Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

jeudi 24 novembre 2022

Research & Patents

J. Compos. Sci. | Free Full-Text | Hybrid Polyethylene Composites with Recycled Carbon Fibres and Hemp Fibres Produced by Rotational Moulding



This study assessed polyethylene composites produced by rotational moulding with hybrid reinforcement using recycled carbon fibre (RCF) and hemp fibre (HF). First, the RCF was treated with nitric acid to introduce hydroxyl groups on the fibres' surface and was characterised by infrared spectroscopy and microscopy analyses. Although the fibre surface treatment improved the tensile properties of the composites, the use of grafted maleic anhydride polyethylene (MAPE) as a coupling agent was more effective in improving the interfacial bonding between the fibres and the matrix.

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Rotomolding Market News - Africa

DMS introduces ASTM-complaint dust fallout unit



Dust monitoring solutions manufacturer Dust Monitoring Services (DMS) has introduced a fully compliant ASTM D1739-98 unit, which includes a bespoke, ultraviolet (UV) stabilised linear low-density polyethylene (LLDPE) bucket and lid. "After being on the cards for a year, the design of the ASTM-compliant unit was finalised in September after a four-month development period during which our existing stainless steel and fibreglass dust fallout units were redesigned to accommodate our new LLDPE bucket," says DMS owner Byron Klückow.

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Rotomolding Market News - Europe

B Medical Systems' CTO explains why rotational moulding is suitable for the production of medical cooling devices



. To ensure that the products to be stored do not deteriorate, these refrigerators must meet a number of criteria. In addition to a uniform internal temperature, reliable autonomy and aspects of sustainability, robustness and durability also play an important role. For this reason, medical technology manufacturers rely on the rotational moulding process. Thanks to this production method, lighter, cheaper devices can be manufactured, which at the same time are in no way inferior in all other criteria to products from alternative manufacturing methods. (Translated from German)

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