AFFILIATO:

Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER jeudi 14 juillet 2022

Research & Patents

The Effects of Various Chemical Treatments of Flax (Linum usitatissimum) Fiber on Mechanical Properties of Their Biocomposites

Measurement of mechanical properties of biocomposites is a good method for evaluating their effectiveness of adhesion between fiber and polymer matrix. In this research, the effects of four different chemical treatments of flax fiber on some mechanical properties of their biocomposites was investigated. Initially, the flax fiber was soaked in alkaline, silane, benzoyle and peroxide solution and the fiber were dried in an air-cabinet drier at 70°C.

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The Effect of Plasma Treatment of Polyethylene Powder and Glass Fibers on Selected Properties of Their Composites Prepared via Rotational Molding

In this article, the effect of plasma treatment of polyethylene powder and glass fibers on the adhesion between polyethylene and glass fibers in composites prepared by rotational molding was studied. In contrast to other processing techniques, such as injection molding, the rotational molding process operates at atmospheric pressure, and no pressure is added to ensure mechanical interlocking. This makes reinforcing the rotomolded product very difficult. Therefore, the formation of chemical bonds is necessary for strong adhesion. Different

combinations of untreated polyethylene (UT.PE), plasma-treated polyethylene (PT.PE), untreated and plasma-treated glass fibers were manually mixed and processed by rotational molding.

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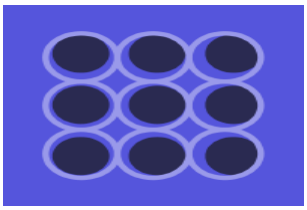
Investigations on Blowing Agents for the Processability of Foamed Parts by Rotational Molding Techniques



Polymeric foams consist of two distinct phases, a solid polymer matrix and a gaseous phase produced by the addition of one or more blowing agents. The production capability of polymeric foamed parts represents an important expansion of the range of properties in the plastics industry, and their unique properties broaden the variety of possible applications. The production of polymeric foams is guided by the reduction in material consumption and weight, and their final performance.

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Rotomolding Market News - Asia

Shengyun Roto Mould Provides the high-quality export insulated cooler box

Shengyun Rotomold is a professional manufacturer and supplier of insulated ice coober box for export. Shengyun Rotomold is equipped with many types of equipment, such as CNC machines , foaming machine, rotomolding machine...etc. The company can not only make rotomolding mould and products, but also make the rotomolding part with PU foaming. Such as insulated ice cooler box, buoy ...and so on. Shengyun Rotomold has been focusing on rotomolding moulds and products. Today Shangyun Rotomold exports a large number of rotomolding insulated ice cooler box for its USA customer and has recently shipped 7 containers of insulated ice cooler boxes.

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