



Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

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Research & Patents

HIGH TEMPERATURE POLYKETONE COPOLYMERS



Compositions and methods for amorphous high temperature polyketone polymers incorporating 2H-benzimidazol-2-one with dihalobenzophenone and bis(halobenzoyl)benzene as comonomer units are described herein. The polyketone polymers have advantageous properties, particularly in terms of high glass transition temperatures (T_g), inherently flame resistance, good mechanical properties at elevated temperature, chemical resistance and dimensional stability in wet environment. The polymers are suitable for manufacturing high temperature molded systems and other articles of manufacture via injection molding, extrusion, compression molding, coating, blow molding, thermoforming, rotational molding and additive manufacturing.

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COMPACTED POLYMER-BASED FILLER MATERIAL FOR PLASTIC ROTOMOULDING



The present invention relates to a compacted polymer-based filler material having a top cut particle size d_{98} of $<500 \mu\text{m}$, a process for producing said compacted polymer-based filler material, a rotomoulded product obtained from the compacted polymer-based filler material, a process for producing said rotomoulded product as well as the use of said compacted polymer-based filler material as additive in a rotomoulded product.

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Rotational molding process simulation for the production of a high-pressure hydrogen tank liner



The development of technologies based on hydrogen is a priority investment area for France, representing an opportunity at national and European levels to accelerate the ecological transition and create a dedicated industrial sector. The storage of hydrogen in compressed form at high pressure allows the development of clean mobility, for heavy vehicles especially. Since 2000, several projects have been carried out in this field to manufacture high-performance tanks capable of meeting the requirements of the specifications. The results showed that type IV tanks are the most suitable for this application. This type of tank is made up of a polymer liner made by rotomoulding, a composite shell made by filament winding and a metal base. Each of these elements has a specific role. However, the role of the liner is essential. On the one hand, it must be impermeable to hydrogen and on the other hand resist the various types of thermomechanical stresses under severe conditions. The choice of polymer for the liner is based on the following characteristics: impermeability to hydrogen, mechanical properties in tension, in confined compression, in cold shock, adhesion of the polymer to the surface of the metal bases and ease of rotational moldability. (Translated from french)

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Rotomolding Market News - Europe

Graf: "Unprecedented price adjustments" due to high raw material costs



Rotational molder Otto Graf, with production sites in Germany, France, Great Britain, Spain, Poland, Australia, Malaysia and China, generated consolidated net sales of EUR 150 million for the 2021 financial year. The tank specialist was thus able to increase its revenue by 25 percent compared to the pre-

corona year 2019. After a good start to the new financial year, the war in Ukraine and rising energy costs have dampened the consumer climate significantly. Manufacturing costs are increasing due to raw material and energy prices. This leads to "unprecedented price adjustments," according to Graf. (Translated from German)

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Plast'Up : rotational molding made in France



Plast'Up, a French company specialized in rotational molding located in Ruitz, in the North of France, is doing well. Created 21 years ago, it first designed containers for household waste found on highways. It then turned to the leisure sector with equipment for motor RVs and to agriculture. It employs about twenty people on its site in Ruitz and sees the future serenely with an order book that is filling up quickly after the crisis. Three years ago, the company's managers took the digital turn and adapted so that the company is now present on the international market, with a range equipped with sensors that greatly optimize collection. (Translated from French)

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