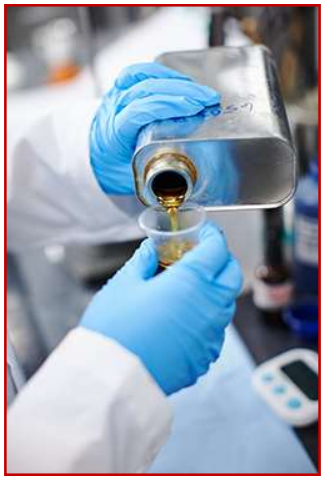
Press Release

RAMPF – Holistic Solutions For Polyurethane Upcycling

UTECH 2024: Tailor-made recycled polyols / Chemical processes and multifunctional recycling plants for post-consumer and industrial residues

Pirmasens, Germany, April 10, 2024. More recycling polyol, less CO_2: RAMPF Eco Solutions is presenting high-quality recycled polyols together with chemical processes and multifunctional plants for the upcycling of polyurethane residues at the UTECH 2024 trade show from April 23 to 25 in Maastricht, Netherlands – Booth C30.

Customized recycled polyols



Recycled polyols made by RAMPF Eco Solutions are tailored to the respective applications of the customer.

Recycled polyols developed and produced by RAMPF Eco Solutions meet the highest quality standards. The made-to-measure systems RECYPOL® (ether and ester polyols based on polyurethane materials), PETOL® (ester polyols based on PET or PSA), and biopolyols (based on renewable raw materials) are used worldwide in a multitude of applications, including the automotive, aerospace, construction, electrical/electronics, energy technology, filter, household appliance, medical technology, rail, ship, and wood/furniture industries.

Innovative chemical recycling processes for high-quality products and significantly improved CO_2 footprint

Recycled polyols are obtained from industrial and post-consumer residues such as PU insulation materials, used mattresses, furniture, car and motorcycle seats, as well as fitness and leisure articles. The polyurethane is broken down into recycled polyols using innovative solvolysis processes (glycolysis, acidolysis, and polyolysis). The RAMPF polyols are at the very least comparable with polyols otherwise obtained from fossil raw materials, both in terms of quality and technical properties; they can therefore be used

directly in the production process for new products. A further benefit – recycled polyols exhibit a significantly improved CO_2 footprint.

RAMPF Eco Solutions based in Pirmasens, Germany, has also developed chemical processes that enable PET/PSA, other polyesters (PLA, PC, PHB), and renewable or bio-based raw materials such as vegetable oils to be used as feedstock for the manufacture of recycled polyols.

Multifunctional plants for the manufacture of recycled polyols

RAMPF Eco Solutions is the market-leading partner for the design, development, and construction of multifunctional plants for the manufacture of customized recycled polyols using polyurethane waste materials, PET/PSA, polyesters such as PLA and PHB, as well as biomonomers. The plants allow customers to manufacture their own polyols onsite, which can then be fed directly back into the production process.

For this, RAMPF Eco Solutions combines its many years of experience both in developing innovative chemical solutions and in industrial plant construction – the result is a unique proposition for the market. Leading plastics producers from Belgium, Germany, France, Russia, Spain, and the United Arab Emirates are using these cutting-edge multifunctional recycling plants.

Multifunctional recycling plants designed by RAMPF Eco Solutions enable customers with high residual volumes to produce their own recycled polyols. This significantly reduces raw material, transport, and disposal costs and makes production more environmentally friendly.

www.rampf-group.com

RAMPF Eco Solutions GmbH & Co. KG based in Pirmasens, Germany, is an expert in chemical solutions for manufacturing high-quality alternative polyols.

Core competence is the manufacture of alternative polyols from waste materials of PU producers. Waste materials from sister companies RAMPF Advanced Polymers and RAMPF Tooling Solutions are also processed.

Furthermore, the company has developed chemical processes that enables PET/PSA, other polyesters (PLA, PC, PHB), and renewable or bio-based raw materials such as vegetable oils to be used as sources of raw materials for the manufacture of alternative polyols.

RAMPF Eco Solutions designs and builds customized multi-functional plants for customers who wish to manufacture alternative polyols based on PU residues, PET/PSA, polyesters, and biomonomers.

RAMPF Eco Solutions is a company of the international **RAMPF Group** based in Grafenberg, Germany.

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