

HUNTSMAN

Enriching lives through innovation

Improving the Sustainability of Flexible Polyurethane Foam

PROJECT DESCRIPTION

A long-standing EUROPUR member, Huntsman recognizes the vital role it plays as a global chemical company in creating a more sustainable future. Using its chemistries as a catalyst for reducing emissions and creating a low-carbon economy, the business is continuously improving the performance of its technologies, processes, and products.

As part of its commitment to sustainability, Huntsman can now offer its flexible foam customers methylene diphenyl diisocyanate (MDI) based on mass balance principles.

With two production facilities accredited to International Sustainability & Carbon Certification (ISCC PLUS) standards, Huntsman can track the amount and sustainability characteristics of circular and/or bio-based content in its value chain and attribute it via the mass balance approach based on verifiable bookkeeping. This has significant advantages for customers that want to verify the sustainable inputs Huntsman uses in its products in order to document their own sustainability footprint.

Huntsman's ability to track the use of renewable and recycled feedstocks in its MDI production strengthens the company's circular product portfolio. Huntsman is also developing flexible foam systems based on TEROL® polyols, which utilize a proprietary process that upcycles scrap polyethylene terephthalate (PET) bottles as well as introducing bio-based feedstocks.

In addition, Huntsman is working on bio-based flexible foam systems, as well as introducing bio-based feedstocks into the TEROL® polyols; all contributions to a lower carbon footprint.

Complementary to its technology portfolio for the manufacture of flexible foams, Huntsman also offers a range of MDI-based binders. These can be used for recycling trim foam to produce rebounded foam.

PROJECT IMPACT

Combining its mass balance approach with flexible foam systems that contain bio- and recycled- content, Huntsman can help flexible polyurethane foam manufactureres to create products with a significantly reduced carbon footprint.

The key is integrating sustainable content without impacting the physical and mechanical characteristics of the final flexible foam.

To support the quantification of the environmental improvement, Huntsman developed its capabilities to generate and Life Cycle Assessment (LCA) and carbon footprint.

Huntsman has more than fifty years' experience in slabstock, batchblock, and moulded flexible foams. A pioneer in this area, the company is widely recognized as a trusted partner for manufacturers – serving raw materials to a broad and diverse range of consumer and industrial end markets, from upholstered furniture and bedding to automotive and healthcare applications.

In all aspects of its work, Huntsman adheres to the United Nations Global Compact. It also aligns its approach to innovation with the UN's Framework of 17 Sustainable Development Goals. In flexible foam, four Sustainable Development Goals (SDGs) guide the team's work.



ABOUT HUNTSMAN

Huntsman Corporation is a publicly traded global manufacturer and marketer of differentiated and specialty chemicals with 2022 revenues of approximately \$8 billion from our continuing operations. Our chemical products number in the thousands and are sold worldwide to manufacturers serving a broad and diverse range of consumer and industrial end markets. We operate more than 60 manufacturing, R&D and operations facilities in approximately 30 countries and employ approximately 7,000 associates within our continuing operations.

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