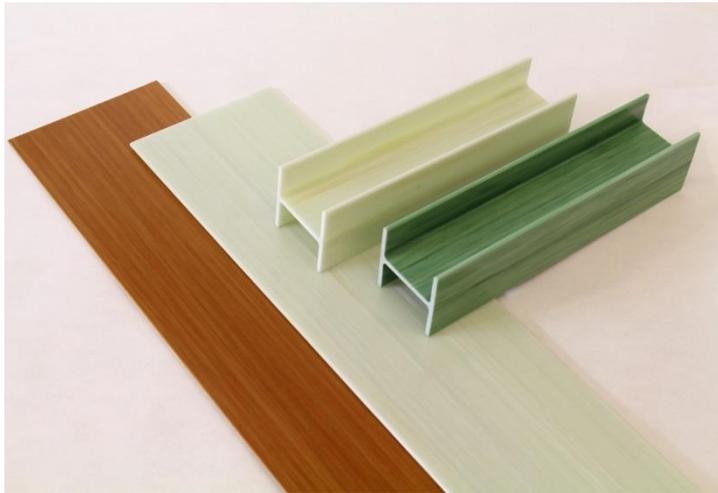


New bio-based polyisocyanate – opens the way to new green lightweight applications

One of Covestro's key targets is to develop products and processes, which enable our customers to improve people's life and help to save the planet. Therefore, one of our sustainability targets is to reduce our specific greenhouse gas emissions by 50% until 2025. An important step to reach this target is the development of Covestro's brand new bio-based aliphatic isocyanate PDI, which can be used to manufacture tailored polyisocyanates for the composite industry.



The use of this polyisocyanate in combination with bio-based polyols leads to an innovative thermoset composite matrix with a potential for up to 90% bio-content. Materials derived from renewable feed stocks show the potential to reduce greenhouse gas emissions by (i) saving fossil resources, (ii) realizing more environmentally benign production processes, and (iii) using plant based raw materials that use CO₂ during photosynthesis.

Consequently, this new material opens a broad variety of potential applications, where superior mechanical properties in combination with reduced environmental impact are required. Furthermore, the resulting composites are characterized by an inherent UV- and weathering resistance due to the aliphatic structure of this material which protects the composite from degradation by environmental impacts, such as sunlight or salty environments. Consequently, compared to conventional solutions, no protective coatings or UV stabilizers are required any longer.

Besides that, our new polyurethane system allows for a very economical manufacturing of pultruded composites, since it offers a direct drop-in solution for established production processes - for the first time, a polyurethane material can be extremely easily processed, even in an open resin bath impregnation mode.

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About Covestro

With 2015 sales of EUR 12.08 billion, Covestro is among the world's largest polymer companies. Business activities are focused on the manufacture of high-tech polymer materials and the development of innovative solutions for products used in many areas of daily life. The main segments served are the automotive, electrical and electronics, construction and the sports and leisure industries. Covestro, formerly Bayer MaterialScience, has 30 production sites around the globe and as of September 2015 employed approximately 15,700 people (full-time equivalents).

Forward-Looking Statements

This release may contain forward-looking statements based on current assumptions and forecasts made by Covestro AG. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. These factors include those discussed in Covestro's and Bayer's public reports which are available on the Covestro website at www.covestro.com as well as on the Bayer website at www.bayer.com. Covestro and Bayer assume no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.