

Renewable material of the year 2021. What happened next?

Last year, Plantics & Vepa won the 'Renewable material of the year 2021' award for their collection of chairs with a shell of a unique circular biomaterial made from hemp fibers and a new thermoset bio-resin.

This unique biomaterial is part of a new family of circular biobased materials that has been developed by Plantics and is patented worldwide for many different applications. It is based on a revolutionary invention of the University of Amsterdam. The resins are produced out of waste material from plants and are the first 100% bio-based thermosetting resins in the world. They are used as a binder in composites (such as the hemp composite material in chairs), coating on paper packaging, and as base material for foams. Because plants capture CO₂ from the air and little energy is used during production, the biomaterials are CO₂ negative. They are also safe (no VOC, no formaldehyde, flame retardant), and raw materials are available on an industrial scale in Europe.

In our presentation, we will elaborate on the above materials and new bio-composite materials and products that will be introduced in the building and furniture market.