

“Yellow Card” Certificate for Polypropylene Compound from Ecobat

Thanks to an additive from Budenheim, the recycled flame-retardant plastic Seculene® meets the highest possible requirements of the UL 94 V0 standard and replaces primary polyamide in the electrical and automotive industries.

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The recycled flame-retardant plastic Seculene® in the testing laboratory. Image: Ecobat

Ecobat is the first and so far only player on the market to have a recycled polypropylene certified in accordance with UL 94 and to have achieved the highest possible requirement under the V0 standard. The certificate, called Yellow Card, authorizes Ecobat to offer the innovative PP compound Seculene® as a flame retardant material for the electrical and automotive industries.

This is possible thanks to an additive from the specialty chemicals company Budenheim. Ecobat uses a solution from the BUDIT® 6 series that meets the highest technical requirements of the compound. What makes it special: BUDIT® 667 is a halogen-free, intumescent flame retardant that forms a foamed, charred layer on the surface in the event of a fire. This prevents the supply of air to the combustible material and the release of toxic combustion gases. As a result, fuel is no longer supplied to the fire and it cannot spread any further. The resulting foam provides additional thermal insulation.

The highlight: With the compound, Ecobat produces a secondary material that replaces primary polyamide in a resource-saving way. The advantages for the customer: The secondary plastic not only saves CO₂, but also costs.

The PP compound is already being used in batteries for e-bikes. Here, the individual modules are installed between a honeycomb-like mesh made of the PP compound. The automotive industry already has the innovative sustainable plastic on its radar: Seculene® was one of the 25 “Products to Watch” at the International Suppliers Fair (IZB) in Wolfsburg. Now the industry magazine KUNSTSTOFF MAGAZIN has decided to nominate the polypropylene in voting for Product of the Year 2025 in the “Materials” category.

About Ecobat

Transforming resources to power a more connected, sustainable world: As the world’s biggest recycler of batteries, and the largest global producer of lead, Ecobat offers sustainability and fully compliant services to the circular energy and resource economy.

From collection and recycling of all types of batteries, including advanced chemistries and EV packs, to re-engineering and minimising waste at all stages of a battery’s life, Ecobat is open for business on two continents.

The lead and polypropylene products of the recycling company are in high demand across multiple industries. Ecobat distributes leading battery brands across Europe and is expert in compliant transportation.

Around 1,545 employees are here to share their expertise and drive circularity.

Further information about Ecobat on www.ecobat.com

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About Budenheim

Budenheim is a global specialty chemicals company with production sites in Germany, China, Mexico, USA, Spain and the Netherlands.

Building on an innovative portfolio of products and services, Budenheim offers sustainable solutions for a broad range of applications. These include the fields of nutrition, health, safety and preservation of resources. In close cooperation with its customers, the chemical specialist develops solutions for a better life and sets basis for enduring profitability.

Budenheim generates annual revenue of several hundred million Euros and has a workforce of more than 1,250 employees.

Further information about Budenheim on www.budenheim.com

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