

# The first recycled miniature circuit breakers made of Ultramid® Ccycled®.

Together with Schneider Electric, BASF has developed Miniature Circuit Breakers (MCBs) **made of recycled feedstock**. MCBs are often used in fuse boxes: in the event of an overload or short circuit, circuits are automatically switched off. Ultramid® is therefore characterized by **excellent electrical properties and high temperature resistance**

The recycled feedstock MCBs were developed based on material requirements – technical properties, color, and sustainability – and were presented in 2022.

To produce MCBs, a secondary raw material, **pyrolysis oil, is produced from used tires**, which replaces fossil raw materials in production. This process is made possible by the so-called **ChemCycling®**.

## What exactly is ChemCycling®?

With its ChemCycling® project, BASF is breaking new ground in the recycling of plastic waste. Chemical recycling primarily involves the use of plastic waste that has so far been used for energy recovery or landfilled, such as **mixed plastic waste or end-of-life tires**. In a thermochemical process, BASF's partners obtain recycled feedstock from these plastics. The secondary feedstock is then fed into the BASF Verbund. Using a mass balance approach, these chemicals can be attributed to specific products manufactured in the Verbund, such as our Ultramid® Ccycled® products. Fossil raw materials are thus **replaced and saved**.

## Kontakt

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We create chemistry

## Why is the MCB sustainable?



- With every kilogram of attributed plastic made with recycled feedstock instead of virgin plastic, approx. **30% CO2 is saved**
- Thanks to this project, **400 tons of plastic have been switched to recycled feedstock**
- 56% of material was converted** from virgin plastics into this new recycled material

