

# Sustainable packaging solutions with Ultramid® Ccycled™

High-quality polyamides made  
from plastic waste



# BASF supports your sustainable packaging solutions with its new Ultramid Cycled products

BASF's ChemCycling™ project is breaking new ground in the recycling of plastic waste. Chemical recycling primarily uses plastic waste that was previously used for energy recovery or simply thrown away, such as consumer plastics which were removed during the recycling process. In a thermochemical process, the plastics waste is converted into

basic chemicals which are fed into the BASF Verbund as a raw material. Applying a mass balance approach, it is possible to allocate those chemicals to certain products manufactured in the Verbund, for example our Ultramid Cycled products. This replaces and saves fossil resources.

## Benefits for you:

- Chemical recycling uses plastic waste that is otherwise not suitable for high-quality recycling.
- No downcycling – quality is equivalent to that of new products.
- The products are food safe.
- No need to modify your production plants or processes to accommodate the products. The Cycled products are drop-in products.
- A closed loop is possible.

## Our products made from chemically recycled material:

	Ultramid Cycled postC1	Ultramid Cycled postC2	Ultramid Cycled preC3
Raw material source	Mixed plastic household waste ("Yellow Sack")	Scrap tires	Polyamide production and process waste
Process	Pyrolysis	Pyrolysis	Cracking-Process
Mass balancing	✓	✓	✓
Processing and production quality	Equivalent to PA made of fossil raw materials	Equivalent to PA made of fossil raw materials	Equivalent to PA made from fossil resources
Food contact	✓	✓	✓
Sustainability aspects	<ul style="list-style-type: none"> <li>■ Upcycling potential in a circular economy</li> <li>■ CO<sub>2</sub> savings compared to energy recovery</li> <li>■ Saving of fossil resources</li> </ul>	<ul style="list-style-type: none"> <li>■ Upcycling: Conversion of scrap tires into high-quality plastics</li> <li>■ CO<sub>2</sub> savings compared to energy recovery</li> <li>■ Saving of fossil resources</li> </ul>	<ul style="list-style-type: none"> <li>■ CO<sub>2</sub>-savings compared to incineration or landfill</li> <li>■ Saving of fossil raw materials</li> </ul>
Possible claims for customer applications*	<ul style="list-style-type: none"> <li>■ Contributes to a circular economy</li> <li>■ Closes the packaging loop</li> <li>■ This packaging requires less primary fossil raw material</li> </ul>	<ul style="list-style-type: none"> <li>■ This packaging requires less primary fossil raw material</li> </ul>	<ul style="list-style-type: none"> <li>■ For this packaging less primary fossil raw materials have been used</li> </ul>
Certified by independent certification bodies	✓	✓	✓
Available	As of 10/2021	As of now	As of now

\*Claims subject to legal review by user.

Would you like more information on our Ultramid Cycled products? Please contact us:

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**Find out more about ChemCycling from BASF**

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We create chemistry