

Where does the loop lead?

The Great INCIRCULAR Plastic Metamorphosis Explained

Name:

Post-consumer Waste Fibres ZZC-500 (JRS Rettenmaier & Söhne GmbH)

What is it?	ZZC-500 is a lignocellulosic fibre material derived from post-consumer waste streams, supplied in a fine grey powder form. It is used as a sustainable reinforcement filler in polymer composites.
What is it made of?	Processed post-consumer lignocellulosic materials (e.g. recycled wood or plant-based fibres), mechanically refined and standardized by JRS Rettenmaier & Söhne GmbH into a controlled powder fraction (ZZC-500).
What is it for?	The material is used as a reinforcing filler in thermoplastic composites, particularly in polyolefin systems (e.g. PP), where it improves stiffness, dimensional stability, and sustainability profile.
At what stage of the recycling process is it located?	ZZC-500 fibres are introduced during the extrusion compounding stage of recycling, where they are blended with rPP in the melt phase to produce INCIRCULAR reinforced composite pellet materials.

