

Where does the loop lead?

The Great INCIRCULAR Plastic Metamorphosis Explained

Name:

Extruded Reinforced Filaments (rPP + 20 wt.% ZZC-500 fibres)

What is it?	Composite filaments produced by extrusion, based on recycled polypropylene (rPP) reinforced with 20 wt.% of ZZC-500 fibres. Designed as a value-added recycled composite with enhanced mechanical performance.
What is it made of?	Recycled polypropylene sourced from the GORENJE processing line (waste stream) combined with reinforcing fibres, which act as a structural filler to improve stiffness and strength, in addition coupling agent (MAH-g-PP)
What is it for?	The material is used for the production of granulated composite material for injection moulding applications, where improved mechanical properties compared to neat recycled PP are required.
At what stage of the recycling process is it located?	This material is produced during mechanical recycling and compounding stage, where recycled PP is melted, homogenized, reinforced with fibres, and extruded into filament form for further processing or manufacturing.

