



AQUAFIL

Assessing the environmental performance of ECONYL, the first Nylon 6 yarn from 100% waste materials



NEED

Aquafil Group is a global leader in the synthetic fibers industry. In 2011 the company launched ECONYL® Regeneration System, an innovative industrial system for producing Nylon yarn from 100% waste materials and a reliable and **transparent way** to calculate, certify and communicate the **environmental performances of the new process** was then needed.



RESPONSE

The full **Life Cycle Assessment of the ECONYL® yarn** was the first step of the long term collaboration between Aquafil and LCE, providing the company with quantitative information about the product's environmental impact. ECONYL® environmental profile was **benchmarked** against a normal Nylon fiber, showing that the use of a recycled yarn leads to significant benefits in terms of reduced consumption of natural resources and greenhouse gasses emissions.

An ISO 14025 certified **Environmental Product Declaration** of ECONYL® fiber was the next step, satisfying Aquafil's need for an accurate, **transparent and verified environmental** communication tool.



OUTCOMES

The ECONYL® regenerated yarn comes with the same performance characteristics as virgin quality nylon, while ensuring significant environmental benefits. ECONYL® is now **sold worldwide** and it is used by the most important brands both in the carpet industry and the textile and fashion ones.



GEOGRAPHICAL COVERAGE

ECONYL® is produced in Aquafil's Slovenian plants. Nylon waste is collected through an international network which operates worldwide.

