Life Cycle Assessment data for
ECONYL® POLYMER

PROCESSES INCLUDED

Polymer production, including recycling operations

- **End-of-Life treatment** of manufacturing waste, even if carried out by third parties, including transportation
- **Generation of electricity** and production of fuels, steam and other energy carriers used in core processes
- **All relevant transportation** (transport of raw materials, fuels and products at all stages)
- **Secondary and recycled raw materials production**. This includes plastics waste and scraps recovery/recycling processes, collection and selection of post-consumer and post-industrial waste, washing of post-consumer waste, grinding of scraps and/or post-industrial feedstock, mechanical pre-treatment and chemical recycling process

Downstream processes are outside of scope of the LCA study since polymers are the "building blocks" for a production chain of countless items in very different markets, making their end use and end-of-life treatment often unpredictable

MATERIAL HEALTH ASSESSMENT

ECONYL® polymers do not contain any materials /substances hazardous to health and the environment (carcinogenic, mutagenic or toxic to reproduction, PBT, vPvB) or substances of very high concern (SVHC), according to Regulation (EC) No 1907/2006 and Regulation (EC) No 1272/2008.

PRODUCTION SITES INCLUDED IN THE LCA STUDY

- **AquafilSLO** - Ljubljana, Slovenia
- **AquafilSLO** - Ajdovščina, Slovenia
- **Aquafil S.p.A.** - Arco, Italy
- **Aquafil Carpet Recycling** – Phoenix, USA

CARBON FOOTPRINT

1,69

Kg CO_2 eq

74%

reduced CO_2 emissions compared to Aquafil's standard nylon

- **Owner of the document:** Aquafil
- **Results from:** ISO 14040/44 Third Party verified LCA study (Studio Fieschi & soci Srl, Turin IT)
- **Data collection:** 2023 - 2024
- **Geographical coverage:** Global
- **Material:** Nylon 6
- **Declared Unit:** 1 kg polymer (granules)
- **DNV Product Certificate:** ECONYL® products in PA6 100% recycled, with post-consumer and pre-consumer content
- **Boundaries:** cradle to gate