

One of our most heartfelt commitments is that towards the environment: at Coatyarn we try to make all products as sustainable as possible, reducing environmental impact to a minimum.

In the production process, this translates into:

0% waste

0% water

0% polluting emissions

0% solvents

100% recyclability for TPU Evolution<sup>®</sup>

Taking the TPU Evolution<sup>®</sup> range as an example, we start from paste dyeing: the polyurethane that coats the yarn is colored without using water.

The textile sector uses on average 100-150 liters of water to treat 1 kg of textile material. Every year billions of kilos of textiles are dyed on an industrial basis: the fashion industry is one of the most polluting in the world, with around 20% of global water waste and 10% of global carbon dioxide emissions, immediately ranking below the petrochemical sector in this sad record. The obvious advantage of paste dyeing is the absence of waste water, as well as high color consistency between batches of yarn.

TPU Evolution<sup>®</sup> is **100% recyclable**: our yarn can be ground and extruded again thus obtaining granules that can be used directly or as an additive to increase mechanical performance. The products to which the granules can give life include soles, panels, vases, etc.

**TPU Evolution<sup>®</sup>, like all our yarns including the Industrial range**, is completely solvent-free, non-toxic and safe for both humans and the environment; the solvent production process leads to the emission of greenhouse gases, the volatility of which is one of the main causes of damage to stratospheric ozone. The absence of solvents in TPU Evolution<sup>®</sup> therefore contributes to respecting the quality of the air we breathe and our aquifers.

In full respect of the *beginning-to-end* of production environment, we have also thought of packaging that is as natural as possible, entirely made of recyclable cardboard and paper. 17% of cardboard packaging and cones, together with the pallets used in the production process, are recovered for subsequent use, and all the cones used in the extrusion process are continuously reused.



The production system is organized for the automatic transport of yarns with low energy use. We also thought about energy conservation by choosing to expand the lighting surface to give prevalence to natural light. The low consumption LED lamps that illuminate the production space contribute to a reduced energy impact.

The **short supply chain** minimizes the need for long-distance transport and the resulting polluting emissions. Our goal is to constantly reduce the **carbon footprint**.

***The same protocols are in use for all our product ranges: CoatedYarn Industrial, the division dedicated to technical yarns for industrial use, combines cores of various types with the highest performing polymers.***