ISATEX

Since 1988 Isatex is production partner of woven labels and ribbons

NEWLIFE®
a premium yarn with a sustainable identity

Newlife™ is a unique, complete, certified and **traceable** system of continuous 100% recycled polyester yarns derived from transparent and non-colored post-consumer plastic bottles.
The collection and subsequent processes take place entirely in Italy, starting from the polymer, obtained through a mechanical and non-mechanical process chemical, up to the production of the yarn.
1 kg of recycled plastic is equivalent to 1 kg of Newlife™ yarn.

acqua ZERO

We believe it is of fundamental importance to seek solutions that allow to reduce the use of water in the various stages of the production chain.
The textile finishing processes, in addition to being particularly energy-intensive, require the use of large quantities of water.
We have always tried to reduce the consumption of these resources by optimising the dyeing processes, thanks to the constant commitment and collaboration of our suppliers.
We have therefore agreed to use a dyeing process with acquaZERO® technology for our Newlife™ recycled yarns.

Savings

The production of **1 kg of Newlife™**, compared to the same amount of virgin polymer, allows a decrease, in terms of consumption, of **energy: -60%; CO2 emissions: -32%; water: -94%**.
The **acquaZERO®** processing guarantees bath ratios 1: 3.5 (1 kg of yarn: 3.5 liters of water) for each of the three processing steps, in replacement of the old production standard 1:10 / 1:12 (1 kg of yarn: 10/12 liters of water).

The 65% reduction in water consumption is obviously accompanied to the same reduction in the consumption of necessary hydrocarbons to heat the water itself and the use of chemical and auxiliary products dosed in relation to the volume of water in the dyeing bath.

Below is a summary illustrating the consumption of water for production of **1 Kg of virgin polymer** dyed in standard mode compared with water consumption for the production of **1 Kg of Newlife™** dyed in **acquaZERO®**.

Virgin fibre	Standard dyeing	
48,80 lt +	33 lt	= **81,80 lt**
NEWLIFE™	ACQUAZERO®	
2,74 lt +	10,5 lt	= **13,24 lt**

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