



BIOPOLYMER PLA YARN

CORNLEAF is a continuous filament yarn produced from polylactic resin (polylactic acid PLA INGEO™).

It is a biopolymer synthesized from a vegetable raw material. This product is therefore environmentally friendly: CORNLEAF is 100% biodegradable.

The highest level of sustainability is achieved by the raw and dope dyed versions.

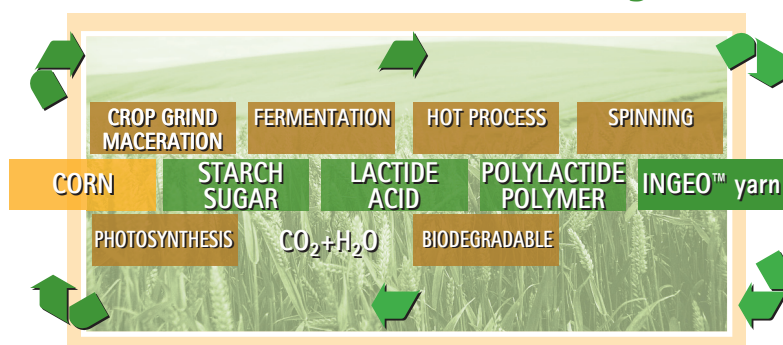
THE ADVANTAGES OF CORNLEAF

- ◉ **Environmentally Friendly & Natural:** Polymer originated from vegetable, renewable resources.
- ◉ **Biodegradability:** Product compostable at 100%.
- ◉ **Lightness:** Specific weight lower than natural fibres.
- ◉ **Tenacity:** Comparable to synthetic yarns.
- ◉ **Wear and Comfort:** Greater hygroscopicity than synthetic yarns and faster drying capacity compared to natural fibres, elastic recovery exceeding 90% at 5% strain.
- ◉ **UV Resistance:** Excellent; UV radiation is dissipated.
- ◉ **Safety:** Low flammability LOI>26%; does not release toxic fumes.

FIBRE PROPERTIES - COMPARISON

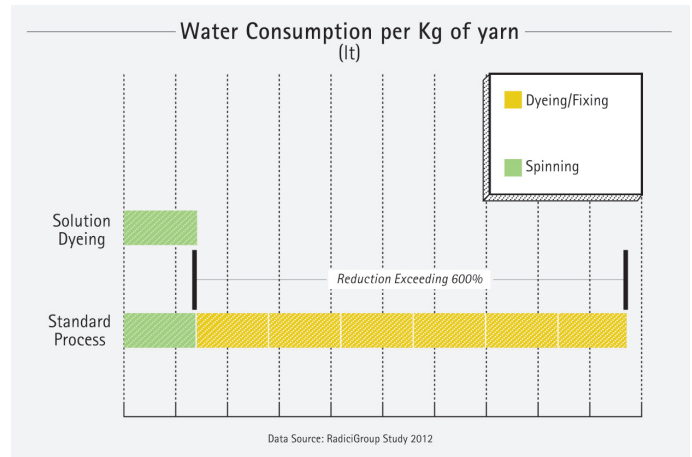
Properties	PA6	PET	VISCOSE	PLA	COTTON	SILK	WOOL
Specific Weight	1.14	1.39	1.52	1.25	1.52	1.34	1.31
Tenacity (cN/dtex)	4.2÷4.8	4.5÷5.5	2.0÷2.5	3.0÷4.0	2.0÷4.0	3.2÷3.8	1.2÷2.0
Moisture Regain (%)	4.0÷4.5	0.2÷0.4	11÷13	0.4÷0.6	7.0÷10.5	10÷12	14÷18
Melting Point (°C)	215	255	-	170	-	-	-
Elastic Recovery (%)	89	65	32	93	52	52	69

CORNLEAF: continuous filament yarn made with Biopolymer PLA.
PLA – Natural and 100 % Biodegradable



The solution dyeing technology of Noyfil SA

Thanks to Noyfil solution dyeing technology during the spinning process, the production of **CORNLEAF** continuous yarn requires lower water and energy consumption compared to traditional dyeing and finishing treatments.



Applications, Sectors

CLOTHING	FURNITURE	TECHNICAL APPLICATIONS
Sport	Coverings	Roofing
Knitting	Carpets	Geotextiles
Underwear, socks	Curtains	

Using these environmentally friendly technologies and materials, **CORNLEAF** fits well the requests from the market. Bags for laptops, mobile phones, tablets, pens, under and bodywear are some end uses of **CORNLEAF**. Thanks to the wide range of colours available, it suits the last fashion trends. The minimum lot size for each single color is 200 kg. **CORNLEAF** is also available with bacteriostatic effect using HEIQ additive.

The complete eco-compatibility of additives and colours can be certified OEKOTEX Std 100 Class 1 upon request.

