

# BIO-BASED YARNS

Sustainable innovation by Milior

130<sup>th</sup> ANNIVERSARY Milior®

Milior's commitment to a more responsible future takes concrete form through the use of bio-based yarns—derived from renewable natural resources—significantly reducing the reliance on petroleum-based materials.

**Q-GEO®** is a polyamide 6.6 yarn with a significant bio-based component (46%) derived from non-edible corn waste. It is designed to deliver comfort, durability, and a lower environmental impact compared to traditional yarns. Certified OEKO-TEX® STD 100 CLASS / Appendix 6 and DIN CERTCO (ASTM D 6866:2022), it also comes with an LCA (Life Cycle Assessment), ensuring transparency and sustainability across the production chain.

**LYCRA® BIO-BASED** uses QIRA®, a 1,4-butanediol (BDO) produced via the fermentation of corn-derived sugars, replacing approximately 70% of traditional PTMEG. It maintains the same elasticity, strength, and durability as standard LYCRA®, thanks to its identical chemical structure. The fiber is USDA BioPreferred® certified, ensuring internationally recognized renewable content and sustainability standards.

To these plant-based fibers, we add our in-house technical expertise: customized elasticization and blends with noble fibers give rise to a new generation of fabrics that combine performance, tactile richness, and refined aesthetics.

## THE NEW FABRICS INCLUDE:

- Two yarns blended with silk — one finer, one more structured — offering a noble and versatile feel
- A 50/50 wool/silk blend, delivering an exceptionally soft and fluid hand
- A super-twisted cotton yarn, featuring a dynamic texture with a subtle "crepe-like" effect
- A wool/cashmere blend for a warm and refined feel next to the skin

## PERFORMANCE:

- Advanced moisture management: +50% absorbency compared to conventional polyamides
- Ultra-fast drying and flame-retardant properties without additives
- Superior softness and comfort, thanks to cotton, silk, wool, and cashmere
- Excellent abrasion resistance and dimensional stability
- A lustrous, sophisticated, or technical look, depending on the fabric structure

**RECOMMENDED FINAL USES:** Lightweight trench coats and parkas - Fluid jackets and outerwear - Contemporary dresses - Soft yet structured trousers - Elegant outerwear



BI-STRETCH



WATER REPELLENT



DOUBLE FACE



SEASON LESS



EASY-CARE



ECO MATERIAL



SUSTAINABLE



MADE IN ITALY



PFC FREE



BIO BASED

PIECE DYED

# SUSTAINABLE INNOVATION

Technology and responsibility in the yarns of the future

130<sup>th</sup> **Milior**<sup>®</sup>  
ANNIVERSARY

Milior's sustainable innovation stems from a thoughtful, conscious process in which our team carefully selects next-generation man-made yarns, the result of research, technology, and responsibility. Each choice is driven by a clear goal: to design ethical and high-performance fabrics that respect the environment without compromising on aesthetics, functionality, or the technical know-how that defines Milior's identity. Recycled, bio-based, or low-impact materials become active ingredients in the development of contemporary, traceable, and forward-thinking collections.

## THE SUSTAINABLE YARNS BEHIND OUR FABRICS TODAY:

**NEWLIFE<sup>®</sup> by Sinterama:** 100% recycled polyester made from post-consumer PET bottles, transformed through a mechanical process that uses no chemical agents. The result is a high-quality, certified, and traceable yarn that significantly reduces water and energy consumption compared to virgin polyester.

**Q-GEO<sup>®</sup> by Fulgar:** A bio-based polyamide made with 46% renewable content derived from non-edible industrial corn, cultivated on non-agricultural land. It delivers high technical performance while reducing the environmental footprint through lower water use and greenhouse gas emissions.

**AMNI SOUL ECO<sup>®</sup> by Fulgar:** A biodegradable polyamide engineered to break down quickly in landfills and marine environments, reducing microplastic accumulation. It maintains the comfort, durability, and easy-care properties of traditional polyamides.

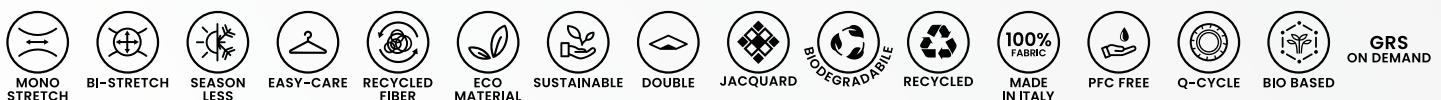
**Q-NOVA<sup>®</sup> by Fulgar:** A recycled Nylon 6.6 yarn made from industrial waste through a low-impact mechanical process without chemical treatments. It is GRS, EU Ecolabel, and OEKO-TEX<sup>®</sup> STD 100 Class I certified, ensuring full traceability and environmental responsibility.

**Q-CYCLE<sup>®</sup> by Fulgar:** A sustainable nylon derived from the chemical recycling of end-of-life tires via pyrolysis, transforming waste into secondary raw material. It offers performance equivalent to virgin polyamide, with a significantly reduced environmental impact.

**LYCRA<sup>®</sup> bio-based:** Made using QIRA<sup>®</sup>, a 1,4-butanediol (BDO) obtained by fermenting corn-derived sugars. It replaces around 70% of traditional PTMEG while maintaining the same elasticity, strength, and durability of conventional LYCRA<sup>®</sup>, thanks to its identical chemical structure. The fiber is USDA BioPreferred<sup>®</sup> certified, meeting internationally recognized standards for renewable content and sustainability.

## PERFORMANCE:

- Reduced environmental impact, thanks to the use of recycled, biodegradable, and bio-based materials
- High traceability, supported by international certifications for full supply chain transparency
- Comfort and durability, with mechanical and sensory properties equivalent to traditional yarns
- Versatile applications, suitable for a wide range of contemporary men's and women's fabrics and garments



For over 30 years, Tarallo® has embodied the soul of Milior: an iconic fabric deeply rooted in our identity and featured for decades in the collections of the most prestigious fashion houses. Originally developed as a 100% polyester fabric, it has since evolved into multiple compositions, becoming a true stylistic and technical code: a reliable, versatile, and instantly recognizable base, capable of reinventing itself while preserving its distinctive character.

Its enduring success lies in a unique combination of technical precision, shape memory, and aesthetic clarity, making it ideal for both structured garments and fluid, contemporary silhouettes. Tarallo® is more than just a fabric—it is a language: a techno-driven vision interpreted through the refined lens of Italian craftsmanship.

**THE EVOLUTIONS OF AN ICON:** The Tarallo® heritage continues to expand through technical and stylistic variations, each born from a desire to explore new aesthetics and performance features.

## TECHNICAL EVOLUTIONS

- **TARALMICRO:** Brushed bi-stretch microfiber, offering a compact look, soft hand, and excellent structural retention.
- **TARALLASCO/REC:** Bi-stretch fabric made from recycled polyester, delivering the same performance as the original Tarallo® with a reduced environmental impact.
- **TARALLO®/REC + COTTON BI-STRETCH:** A blend of recycled polyester and cotton, providing comfort, breathability, and environmental responsibility.
- **TARAMEL/REC:** Melange monostretch version with a more casual and versatile appeal, ideal for layering or urban sportswear.

## STYLISTIC EVOLUTIONS

- **TARALLO® JACQUARD:** Woven on jacquard looms, this version features monochrome patterns that reveal themselves through light refraction, creating a sophisticated yet dynamic visual effect.
- **TARALLO® SILK BI-STRETCH:** Featuring a micro polyester warp and silk weft, this blend offers both structure and nobility—technical yet luxurious.
- **TARALLO® MELANGE WITH NOBLE REVERSE:** Solid, melange, or patterned double structures with a high-end natural fiber backing, lending warmth and tactile richness—ideal for outerwear, jackets, and coats.

## SATINS AND NOBLE FIBER BLENDS

- **SATIN SILK / CASHMERE STRETCH:** Reinterprets the lustre and softness of noble fibers in a high-performance context. Lustrous, sophisticated, and exceptionally comfortable.
- **TARALLO® WITH CASHMERE (Reverse and front blend):** Available with either a cashmere face and technical reverse or vice versa, combining bi-stretch microfiber with cashmere backing. Perfect for deluxe overcoats and outerwear.
- **TARALLO® CORDUROY:** The latest evolution in the Tarallo® family—a ribbed techno-velvet made from polyester yarn that retains the core specifications of the original. A unique, modern reinterpretation of fashion outerwear.



MONO  
STRETCH



BI-STRETCH



EASY-CARE



RECYCLED  
FIBER



ECO  
MATERIAL



SUSTAINABLE



100%  
FABRIC  
MADE  
IN ITALY



JACQUARD



RECYCLED

PIECE  
DYED

TOP  
DYED

GRS  
ON DEMAND

Milior's bond with the world of sport runs deep. Since the golden age of the Valanga Azzurra, our fabrics have lived sport from up close—designed to meet the demands of snow, speed, and elegance in motion.

Today, that same technical and aesthetic heritage lives on in a new family of fabrics inspired by noble sports—skiing, tennis, equestrianism, and sailing—designed to move seamlessly both on and off the field.

Originally developed for ski apparel, our bi-stretch fabrics have evolved into versatile materials suitable for trench coats, parkas, jackets, trousers, and hybrid outerwear with a contemporary urban spirit. Each fabric is crafted with a sharp focus on sustainability and performance, using thermal-insulating fibers, high-bulk multifilament polymers, and the most advanced textile processes. Articles like Ragusa, Annecy, and Gran Risa perfectly embody this vision: a refined sport-inspired elegance, rooted in comfort, structure, and modernity.

## KEY TECHNICAL PERFORMANCES

- **BI-DIRECTIONAL ELASTICITY (Bi-Stretch):**  
For full freedom of movement
- **CONTROLLED VOLUME AND LIGHTNESS:**  
Thanks to high-bulk multifilament yarns
- **DIMENSIONAL STABILITY AND ELASTIC MEMORY:**  
Keeps shape and fit over time
- **THERMAL HOLD:** Guaranteed by selected thermal-insulating fibers
- **DURABILITY AND RESISTANCE TO DEFORMATION:**  
Even in extreme conditions
- **BREATHABILITY AND SKIN COMFORT:**  
Designed for active elegance
- **REFINED AESTHETICS:** Perfect for sophisticated daywear

**RECOMMENDED FINAL USES:** Sporty yet elegant trench coats and parkas - Hybrid jackets and outerwear - Technical trousers and leggings - Tailored activewear-inspired garments - Luxury activewear capsules



MONO  
STRETCH



BI-STRETCH



WATER  
REPELLENT



EASY-CARE



RECYCLED  
FIBER



ECO  
MATERIAL



SUSTAINABLE



100%  
FABRIC  
MADE  
IN ITALY



RECYCLED



PFC FREE



THERMO  
REGULATOR

PIECE  
DYED

TOP  
DYED

GRS  
ON DEMAND



Miliorlana is the answer to the need for sartorial richness that adapts to the pace of contemporary life. Originally developed in the early 2000s with the iconic New Survival, Miliorlana has evolved into a full family of intelligent technical fabrics designed to offer elegance, comfort, and high-level performance.

These fabrics are ideal for travel suits, unstructured jackets, elegant trousers, modern skirts, and refined overcoats. Highly performing, they combine the aesthetic richness of wool with ease of use and care, thanks to machine washability, resistance to deformation, and long-lasting durability.

Miliorlana is designed for those who want a polished, put-together look without compromising on comfort - fabrics that follow the body, not restrict it, while maintaining structure and style over time.

## KEY FEATURES & PERFORMANCES

- **PERMANENT ELASTICITY:** retains shape even with prolonged use
- **MACHINE WASHABLE:** easy care without sacrificing quality
- **TECHNICAL NATURAL HAND FEEL:** balanced wool/polyester blends offer fullness and freshness
- **HIGH COMFORT:** ideal for daily wear in all weather conditions
- **TRAVEL-FRIENDLY:** wrinkle-resistant and always ready to wear
- **SUSTAINABLE DESIGN:** long life, minimal maintenance required

**RECOMMENDED FINAL USES:** Unstructured jackets and blazers - High-performance tailored trousers - Smart travel-wear sets - Lightweight coats and modern trench coats - Elegant uniforms - Formal yet functional menswear and womenswear



Knit fabrics are a core part of Milior's textile research, with a strong creative focus on merging materiality, comfort, and three-dimensional construction. Never ordinary, these fabrics—made on circular or flatbed knitting machines—stem from a meticulous selection of certified high-quality yarns, ensuring traceability, sustainability, and responsibility throughout the production chain.

Their surfaces are vibrant, deep, and architectural, thanks to elastic and textured structures that lend themselves to both technical and formal interpretations—always refined.

This is a fabric family that is comfortable, elegant, and contemporary—designed to offer new solutions to modern textile design.

## KEY FEATURES & PERFORMANCES

- **THREE-DIMENSIONAL STRUCTURES:** textured reliefs and volumes from complex constructions, delivering a distinctive visual identity
- **NATURAL ELASTICITY:** dynamic fit and comfort without compression
- **BREATHABILITY & LIGHTNESS:** ideal for garments worn close to the skin
- **EXCELLENT FIT:** fabrics that follow the body without losing shape
- **SELECTED RAW MATERIALS** with GRS (Global Recycled Standard), RWS (Responsible Wool Standard), and GOTS (Global Organic Textile Standard) certifications
- **EASY CARE:** machine washable and durable over time

**RECOMMENDED FINAL USES:** Soft yet structured trousers for daily wear with a refined look - Textured skirts and tube dresses - Leisurewear and loungewear for a relaxed, stylish feel - Lightweight, unstructured outerwear that leverages the fabric's stretch and full hand



TECHNO  
KNITTED



BI-STRETCH



WATER  
REPELLENT



LIGHT  
WEIGHT



DOUBLE  
FACE



SEASON  
LESS



EASY-CARE



RECYCLED  
FIBER



ECO  
MATERIAL



SUSTAINABLE



JACQUARD



BIOGRADABLE



100%  
FABRIC  
MADE  
IN ITALY



PFC FREE



Q-CYCLE

# TAILORING CARDATO

*The tradition of carded wool, reinterpreted for contemporary elegance*

130<sup>th</sup> **Milior**<sup>®</sup>  
ANNIVERSARY

*The new Tailoring Cardato collection stems from a clear vision: combining Italian textile heritage with a contemporary aesthetic. Our carded tailoring fabrics are made using yarns derived from regenerated raw materials—recycled from old garments, knitwear, and processing waste from our own internal production. These fabrics are the perfect synthesis of heritage, comfort, style, and environmental responsibility.*

*At Milior, we are committed to minimizing environmental impact through low water consumption processes, reduced CO<sub>2</sub> emissions, and the absence of additional dyes in production.*

*This family includes fabrics eligible for GRS (Global Recycle Standard) certification, which guarantees the presence of recycled materials and ensures traceability and compliance with environmental and social standards throughout the production chain.*

## KEY FEATURES & PERFORMANCES

- **ENHANCED THERMAL INSULATION:**  
ideal for colder seasons
- **RICH, FULL-BODIED TEXTURE**
- **ECO-SUSTAINABLE**
- **WARM AND SOFT HANDFEEL**

*The collection includes solutions designed to meet diverse stylistic and functional needs:*

- Wool blends for versatile tailoring
- Lurex-infused designs for a refined touch
- Classic patterns: Prince of Wales, houndstooth, herringbone
- Color palette: warm greys, browns, camel tones, and mélanges.
- Compact yet soft surfaces, perfect for formal citywear
- Lightweight blends for unstructured jackets and comfortable trousers
- Weight range: from 250 to 380 gr/mtl
- Finishes: brushed, KD, water-repellent (on request)



NATURAL  
STRETCH



SEASON  
LESS



WASHED  
EFFECT



LIGHT  
WEIGHT



WOOL  
FLANEL



RECYCLED  
FIBER



ECO  
MATERIAL



SUSTAINABLE



100%  
FABRIC



RECYCLED



FLUFFY



LUREX  
EFFECT



SEERSUCKER



WRINKLE  
EFFECT

GRS  
ON DEMAND

# FANCY FABRICS

Textile creativity in color, light and texture

130<sup>th</sup> Milior<sup>®</sup>  
ANNIVERSARY

Milior's new collection of fancy coat fabrics is a tactile and visual journey through yarn elegance—celebrating material, color, and texture. This is a contemporary and versatile offering that merges textile tradition, creative research, and sustainability. All fabrics are crafted through meticulous processes and made with yarns sourced from certified suppliers.

The fabrics are GRS-certifiable, and specifically designed to meet the growing demand for stylistic exploration. They are conceived to be easily customized according to the input and vision of fashion design teams. Each fabric is designed to offer a pleasant handfeel, impeccable drape, and a rich aesthetic.

From the grainy three-dimensionality of bouclé to the dynamic texture of bottonato, from the lustrous finish of torn and polished bouclé to the modern shimmer of Lurex, this collection stands out for its strong visual and tactile impact.

## FEATURED YARNS – FANCY COLLECTION

- **BOUCLÉ:** Soft, three-dimensional, with a curly texture—ideal for elegant and cozy looks
- **BOTTONATO:** Lively, irregular surfaces enriched by colorful neps that add depth and movement
- **FANCY YARN:** Structured, multicolor yarns enhanced with Lurex, for a unique and customizable aesthetic

**COLOR PALETTE:** A harmonious blend of natural tones and fashion-forward accents

- Sophisticated neutrals: ivory, sand, anthracite
- Warm hues: rust, bordeaux, mustard
- Contemporary touches: forest green, petrol blue, cyclamen



DOUBLE  
FACE



SUSTAINABLE



FLUFFY



RECYCLED  
FIBER



WASHED  
EFFECT



DOUBLE



LUREX  
EFFECT

TOP  
DYED

GRS  
ON DEMAND