



**GANESHA ECOSPHERE LTD.**

# **Recycled Polyester Specialty Yarn**



## FLAME RETARDANT YARNS (FR YARNS)

FR yarns from post-consumer PET bottles have the properties of flame resistance in the polymer structure of fibres using specialized additives and then spinning the fibres to produce spun yarns with high LOI (Level of Oxygen Index) from 25 to 30%

### GENERAL PROPERTIES

**FLAME RESISTANCE:** When exposed to heat or fire, the FR yarns withstand ignition and limit the spread of flames which lowers the danger of harm and property damage in fire-related situations.

**SELF-EXTINGUISHING:** FR yarns have the ability to extinguish fire, which means that once the heat or flame source is removed, they stop burning or emitting flames.

**LIMITED HEAT RELEASE:** On catching fire, FR yarns don't release a lot of heat because they have low heat release characteristics further aiding in flame resistance

**LOW SMOKE EMISSION:** FR yarns produce very little smoke and help to maintain visibility in emergency situations.

### USES

1

Automotive, aircraft & railroad upholstery interiors

2

Home textiles like curtains, upholstery & bedding

3

Protective clothing in firefighting, industrial and military



## BIO DEGRADABLE YARNS (BIO-R YARN)

When exposed to particular environmental factors, such as moisture, heat, and microbes, the biodegradable yarns is intended to degrade spontaneously over time. The yarn's influence on the environment is reduced as it breaks down into organic components. This kind of yarn supports sustainability by decreasing waste and preventing microplastics pollution from ending up in landfills or water bodies.

### GENERAL PROPERTIES

**BIODEGRADABILITY:** These yarns spontaneously decompose and return to the environment without leaving behind toxic residues. They decompose naturally because of climate factors like heat, moisture, and the activity of microbes.

**ENVIRONMENTAL SUSTAINABILITY:** Bio-degradable recycled yarns reduce waste and microplastic pollution from entering landfills and water bodies.

**DURABILITY:** Depending on the particular fibres and production techniques employed, bio-degradable recycled yarns can be made to be strong and long-lasting. They ensure that the finished products keep their integrity and performance by providing strength and resilience comparable to those offered by traditional yarns.

## USES

1

Fast fashion apparels

2

Home textile like bed linens, carpets, & rugs



## COOLFAST YARNS

These are high-performance synthetic yarns with better moisture management properties. Excellent breathability is intended, allowing air to move freely through the fabric. They are durable, making them appropriate for use in sportswear and active wear.

## GENERAL PROPERTIES

**MOISTURE MANAGEMENT:** These yarns are designed to efficiently manage moisture movement through the fabrics to offer quick drying capabilities.

**BREATHABILITY:** Airflow through the fabric is improved aiding in temperature control and preventing overheating.

**MOISTURE WICKING:** These yarns have superior moisture wicking capabilities aiding in quick drying of the fabrics

## USES

1

Sportswear and activewear

2

Outdoor textiles

3

Jeans wear and T-shirts





### CORE RING SPUN YARN

Recycled core spandex ring spun yarn is a sustainable yarn option that combines the properties of Lycra or spandex fibers, and recycled materials. It is made by combining recycled staple fibres for the outer layer, a core filament yarn for strength and stability, and Lycra fibres for improved stretch and flexibility. Stretch, recuperation, and a comfortable fit are provided for uses like exercise, sportswear, work wear, and undergarments.

### GENERAL PROPERTIES

**STRETCH AND RECOVERY:** Incorporates spandex fibers, offering excellent stretch and recovery capabilities, enhancing the flexibility and shape retention of garments.

**SUSTAINABLE:** Made from recycled polyester materials, reducing the demand for virgin resources and promoting environmental sustainability.

**VERSATILITY:** Suitable for various applications, including apparel, activewear, and sportswear, providing versatility in product development.

### USES

- 1 Active wear and sports wear
- 2 Denim
- 3 Work wear trousers



## FANCY YARNS

These yarns have special effects that add vibrant features to the fabrics made using these yarns on top of its sustainability feature as our fancy yarns are made using recycled materials.

### GENERAL PROPERTIES

Fancy yarns usually have a base or core yarn which is a traditional plain yarn, and this yarn is combined with the consequence yarn.

The consequence yarn can be held in place with a binding yarn.

Fancy yarn can be made from staple or filament fibres.

They are deliberately produced to have a malformed or irregular structure.

Fancy yarns can be natural or man-made fibre or a combination of both fibres.



## PRODUCT RANGE

### INJECTING SLUB YARN:

Injecting slub yarn is a type of fancy yarn created by injecting additional fibers or slubs into a base yarn during the spinning process. Commonly used to achieve a rustic or organic look in apparel and home textiles.

### NEPPY YARNS:

Neppy yarns are characterized by the presence of small (short-cut fibres), irregularly shaped fiber knots or neps distributed throughout the yarn. These neps are formed when short fibers or fiber clusters do not blend seamlessly with the yarn. These yarns create a speckled or flecked effect in fabrics, adding a textured and vintage-like appearance.

### SLUB YARNS:

Slub yarns have deliberate thick and thin areas along their length, creating a textured and uneven surface in fabrics. These irregularities are introduced during the spinning process, resulting in a visually interesting and tactile effect. Slub yarns add depth and dimension to fabrics, and they are commonly used in both casual and high-fashion garments to create a distinct and fashionable look.

### MULTI TWIST YARN:

Multi twist yarn is created by twisting two or more yarns together in a complex and varied manner. Multi twist yarns offer a range of visual effects, including spirals, loops, and textural variations. They are often used in decorative trims, accessories, and artistic applications to create visually striking and dynamic fabric surfaces.

### GRINDLE YARNS:

These yarns are made by combining different colors, shades, or types of fibers together, resulting in a visually interesting and textured appearance. Grindle yarns typically have a marled or heathered look, with the colors blended together in a random or irregular pattern. This creates a speckled or mottled effect, adding depth and dimension to knitted or crocheted projects.

## USES

1

Fashion apparels

2

Decorative home textiles & accessories

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