



## 100% RECYCLED TEXTURIZED POLYESTER SEWING THREAD

### Duratex Eco®



Durak Duratex Eco® is a high-tenacity texturized polyester sewing thread, produced from 100% recycled polyester. It provides all the benefits a sustainable sewing thread has to offer without compromising from its sewing performance. In addition to being environmentally friendly, Duratex Eco® is an impressive sewing thread with its flawless and smooth surface, extra strength, bright & shiny colors, even structure and high resistance against abrasion. From the raw material to the lubricants applied, Duratex Eco® is specially developed to perform under the most challenging production conditions. Sustainability has always been our priority. That's why we cooperate with Repreve brand in order to supply our demand for 100% recycled polyester.

### Product Properties

- Durak Duratex Eco® is a highly elastic and voluminous sewing thread.
- It is used on products that require elasticity and it covers the stitches perfectly due to its voluminous structure.
- Prevents shrinkage after washing with its low shrinkage values.
- Color fastness that can withstand the most challenging washing conditions.
- Improves stitch quality due to its flawless surface and special finishing processes.
- Ideal sewing thread for denim production.
- Provides a voluminous look on overlock sews.

# Duratex Eco®

## Areas of Use

- Swim Suits
- Home Textiles
- Sports Wear
- T-Shirts
- Mattress
- Shirts
- Baby wear
- Embroidery
- Knitted Wear

## Physical Properties

Melts at 260°C, softens at 220 - 240°C.

Shrinkage is lower than 1% at 150°C.

## Chemical Properties

**Mineral Acids:** Resistant against most mineral acids.

**Alkalis:** Not affected by weak alkalis. However not very resistant against strong alkalis especially in high heat.

**Organic Solutions:** Mostly not affected but may dissolve in some phenolic solutions.

**Bleaching:** Not affected.

**Micro Organisms / (Fungus, mold):** Not affected.

**Washing/Dry Cleaning:** Not affected.

**Humidity Regain:** %0.4



## Presentation

DURAK Duratex Eco® offers a wide range of colors in a variety of meters size and thicknesses.

## Color Fastness

|                           |             |        |
|---------------------------|-------------|--------|
| Washing fastness at 60°C  | ISO 105 C06 | Min. 4 |
| Water fastness            | ISO 105 E01 | Min. 4 |
| Friction fastness         | ISO 105 X12 | Min. 4 |
| Hypochlorite fastness     | ISO 105 N01 | Min. 4 |
| Dry cleaning fastness     | ISO 105 D01 | Min. 4 |
| Perspiration fastness     | ISO 105 E04 | Min. 4 |
| Artificial light fastness | ISO 105 B02 | Min. 4 |

## Storage Conditions

Must be stored away from high heat, direct sun light and humidity.







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## Thickness and Strength Chart

| Ticket No. | Nominal Tex | Strength CN | Elongation % | Needle Size (Nm) |
|------------|-------------|-------------|--------------|------------------|
| 40         | 60          | 2.200       | 20 - 30      | 100 - 125        |
| 90         | 33          | 1.100       | 25 - 30      | 80 - 100         |
| 180        | 17          | 600         | 20 - 30      | 70 - 90          |



## Other Duratex Sub-Brands

### Duratex UV®

100% texturized polyester sewing thread with UV resistance. Duratex UV® minimizes UV destructions such as discoloration, low abrasion resistance and loss of tenacity.

### Duratex OS®

100% texturized polyester sewing thread with special finishing processes in order to provide high sewing performance in the most challenging conditions. A controlled lubrication process is applied by excluding substances such as silicone, grease, graphite, wax and paraffin during the finishing process.

### Duratex CFR®

100% texturized polyester sewing thread produced by adding flame-retardant characteristics. The thread surface is coated with flame retardant chemical in accordance with the standards of chemical coating method.

### Duratex Multicolor®

Multicolor sewing thread made of 100% texturized polyester filament. It is injection dyed up to four different colors to give a multi-colored effect on the thread.