



## COTTON COATED POLYESTER CORESPUN SEWING THREAD

### **Poly-Strong PC<sup>®</sup>**

DURAK Poly-strong (PC)<sup>®</sup> is a cotton coated continuous filament polyester sewing thread offering thickness alternatives from 120 tex to 24 tex with wide range of color options. Its continuous filament core structure provides high-tenacity while cotton surface prevents needle heating. Special finishing processes that increase sewing performance on every surface from fine fabrics to thick denim fabrics provide a perfect sewing appearance with its regular structure, optimum hairiness level and various thicknesses according to different fabrics. DURAK Poly-Strong(PC)<sup>®</sup> threads increase your production efficiency even under the most demanding conditions.



### **Product Properties**

- ✦ Provides superior sewing performance with its high-technology finishing processes and lubricants.
- ✦ Versatile thread that can be used on very fine fabric to denim, even for heavy work wear.
- ✦ Prevents needle heating thanks to its cotton surface.
- ✦ Ideal sewing thread for denim due to its high resistance against washing and chemical agents.
- ✦ Ensures a natural look without compromising from its strength due to its high-tenacity core.



# Poly-Strong PC<sup>®</sup>

## Areas of Use

- Leather products
- Suits
- Furniture
- Quilting and Mattress
- Shirts
- Underwear
- Home Textiles
- Workwear

## Physical Properties

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

Shrinkage is less than 1% at 150°C.

## Chemical Properties

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

**Alkalis:** Unaffected by weak alkalis, moderately resistant to strong alkalis.

**Organic solvents:** Unaffected by normal solvents, soluble in some phenolic compounds. Cotton swells in caustic, no significant loss of tenacity.

**Bleaching:** Polyester part is unaffected while the cotton part bleaches with hypochlorite and peroxides.

**Microorganisms (Mildew/Rot):** Unaffected.

**Washing / Dry Cleaning:** Unaffected.

**Moisture regain:** %0.4



## Presentation

DURAK Poly-Strong(PC)<sup>®</sup> 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 heat, humidity and direct sunlight.





# Poly-Strong PC®

## Thickness and Strength Chart

Tkt No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
20	120	5.900	20 - 28	120 - 140
30	105	4.900	20 - 28	120 - 140
36	78	3.950	20 - 28	110 - 130
50	60	2.800	20 - 28	100 - 120
75	40	2.000	18 - 24	90 - 100
120	24	1.020	18 - 24	75 - 90

## Other Poly-Strong PC Sub-Brands

### Poly-Strong PC WR®

Cotton coated polyester corespunsewingthreadwithwaterrepellent. It has a PCF-free water repellent surface coating.

### Poly-Strong PC UV®

Cotton coated polyester corespunsewingthread with UV resistance. Poly-Strong(PC)UV® minimizes UV destructions such as discoloration, low abrasion resistance and loss of tenacity.

### Poly-Strong PC CFR®

Cotton coated polyester corespunsewingthread produced by adding flame-retardant characteristics. The thread surface is coated with flame retardant chemical in accordance with the standards of chemical coating method.