



COTTON COATED POLYESTER CORESPUN SEWING THREAD

Poly-Strong PC®

Durak Poly-Strong PC® is a cotton-coated continuous filament polyester sewing thread produced in a wide range of colors and thickness options from 120 tex to 24 tex. Its continuous filament core structure provides high tenacity, while the cotton surface protects the polyester core from needle heating.

Special finishing processes improve sewing performance on various fabrics from fine fabrics to thick denim. With its regular structure, optimum hairiness level and different thickness options suitable for various fabrics, Durak Poly-Strong PC® provides a smooth sewing appearance and increases production efficiency even under the most demanding conditions.



Product Properties

- ✦ Provides superior sewing performance with high-technology finishing processes and lubricants.
- ✦ A versatile thread suitable for very fine fabrics to denim, even for heavy workwear.
- ✦ Prevents needle heating thanks to its cotton surface.
- ✦ Ideal sewing thread for denim due to its high resistance to washing and chemical agents.
- ✦ Ensures a natural look without compromising strength thanks to its high-tenacity core.



Poly-Strong PC[®]

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 to most mineral acids.
- Alkalis:** Unaffected by weak alkalis, moderately resistant to strong alkalis.
- Organic solvents:** Unaffected by common 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%



Color Fastness

Washing fastness at 60 °C	ISO 105 C06	Min. 4
Water fastness	ISO 105 E01	Min. 4
Rubbing 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

Product Options

DURAK Poly-Strong(PC)[®] offers a wide range of colors in a variety of meter sizes and thicknesses.

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 core-spun sewing thread with water-repellent properties. It has a PFC-free water-repellent surface coating.
- Poly-Strong PC UV®**

Cotton coated polyester core-spun sewing thread with UV resistance. Poly-Strong(PC)UV® minimizes UV degradation such as discoloration, low abrasion resistance and loss of tenacity.
- Poly-Strong PC CFR®**

Cotton coated polyester core-spun 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.