



UV RESISTANCE COTTON-COATED POLYESTER CORESPUN SEWING THREAD

Poly-Strong PC UV®

DURAK Poly-Strong PC UV® is a cotton-coated polyester sewing thread produced with enhanced UV resistance. It protects the thread against negative effects caused by UV exposure, such as reduction in thread tenacity, decreased abrasion resistance, and color fading. All these negative effects are referred to as UV degradation. Poly-Strong PC UV® minimizes this degradation to a minimum level. It is an excellent sewing thread offering high resistance to abrasion in high-speed sewing applications. With its high tenacity, bright colors, wide range of thickness options, and excellent performance, it appeals to a very wide range of applications.



Product Properties

- Minimizes UV degradation.
- Continuous filament core provides high tenacity.
- Effect that prevents color fading.
- Superior seamless sewing performance.
- Prevents needle heating thanks to its cotton surface.

Poly-Strong PC UV®

Areas of Use

- Outdoor Textiles
- Furniture
- Automotive
- Tent / Tarpaulin

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) UV® 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 UV®

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®

Cotton coated polyester cospun sewing thread. It provides high tenacity thanks to its continuous polyester core while its cotton surface prevents needle heating.

Poly-Strong PC WR®

Cotton coated polyester cospun sewing thread with water repellent properties. It has a PFC-free water repellent surface coating.

Poly-Strong PC CFR®

Cotton coated polyester cospun 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.