



WATER REPELLENT COTTON COATED POLYESTER CORESPUN SEWING THREAD

Poly-Strong PC WR®

DURAK Poly-Strong(PC) WR® is a cotton coated continuous filament polyester sewing thread with water repellent. It is an excellent choice for outdoor products, shoes and accessories as it has a specially formulated surface that provides a high water resistance. Poly-Strong(PC) WR® prevents water from being absorbed by the thread thanks to PFC-free water-preventing coating material. This coating prevents the water from flowing through the stitch holes when the correct sewing tension is used.



Product Properties

- ❖ Water passing through the pinhole is prevented when the correct sewing tension is used.
- ❖ Provides superior sewing performance with its high-technology finishing processes and lubricants.
- ❖ Prevents needle heating thanks to its cotton surface.
- ❖ Ensures a natural look without compromising from its strength due to its high-tenacity core.

Poly-Strong PC WR®

Areas of Use

- Leather products
- Protective Footwear
- Walking Footwear
- Safety Footwear
- Furniture
- Protective clothing such as raincoat and coat

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) WR® 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 WR®

Thickness and Strength Chart

Tkt No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
20	120	5.900	20	120 - 140
30	105	4.900	20 - 28	120 - 140
36	75	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 UV®

Cotton coated polyester cospun sewing thread 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 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.