



## WATER REPELLENT 100% POLYESTER CORESPUN SEWING THREAD

### Poly-Strong PP WR®

DURAK Poly-Strong(PP) WR® is a staple polyester coated continuous filament polyester core 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. It 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.
- Reliable sewing thread with natural appearance.
- Provides superior sewing performance with its high-technology finishing processes and lubricants.
- Ideal sewing thread for denim due to its high resistance against washing and chemical agents.
- Enables using thinner sewing threads that give a regular look without compromising from its strength due to its high-tenacity core.

# Poly-Strong PP 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.

**Bleaching:** Unaffected.

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

**Washing / Dry Cleaning:** Unaffected.

**Moisture regain:** %0.4



## Presentation

DURAK Poly-Strong(PP) 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.



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## Thickness and Strength Chart

Ticket No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
18	150	7.200	18 - 26	140 - 180
25	120	6.100	18 - 26	125 - 180
30	105	5.400	18 - 26	110 - 140
35	80	4.100	18 - 26	110 - 130
40	80	4.100	18 - 26	110 - 130
50	60	2.750	18 - 26	100 - 125
60	50	2.600	18 - 26	100 - 125
80	40	2.000	16 - 24	80 - 100
100	30	1.600	16 - 24	80 - 90
120	21	1.250	12 - 20	70 - 90
150	20	920	12 - 20	60 - 80
180	17	860	12 - 20	60 - 80

## Other Poly-Strong PP Sub-Brands

### Poly-Strong PP UV®

100% polyester cospun sewing thread with UV resistance. Poly-Strong(PP)UV® minimizes UV destructions such as discoloration, low abrasion resistance and loss of tenacity.

### Poly-Strong PP OS®

100% polyester cospun 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.

### Poly-Strong PP CFR®

100% 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.

### Poly-Strong PP Multicolor®

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

### Poly-Strong PP Recycled®

100% polyester cospun sewing thread, produced by 100% recycled polyester. It provides all the benefits a sustainable sewing thread has to offer without compromising from its sewing performance.