



WATER REPELLENT 100% POLYESTER CORESPUN SEWING THREAD

Poly-Strong PP WR®

DURAK Poly-Strong PP WR® is a high-tenacity, water-repellent sewing thread made of 100% polyester-coated polyester. It features a specially formulated finish that provides a high level of water resistance, making it an excellent choice for outdoor products, shoes and accessories. Thanks to its PFC-free water-repellent coating, capillary action is prevented, thereby avoiding water absorption by the thread. When the correct sewing tension is applied, the transfer of water through the needle holes is prevented. With its high breaking strength and optimum elongation properties, it produces smooth and attractive seams.



Product Properties

- Prevents water transfer through the needle holes when the correct sewing tension is applied.
- Reliable sewing thread with a natural appearance.
- Delivers superior sewing performance through high-technology finishing processes and lubricants.
- Ideal sewing thread for denim due to its high resistance to washing and chemical agents.
- Enables the use of thinner sewing threads that provide a regular appearance without compromising its strength, thanks 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 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.

Bleaching: Unaffected.

Microorganisms (Mildew/Rot): Unaffected.

Washing / Dry Cleaning: Unaffected.

Moisture regain: 0.4%



Product Options

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

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. 5

Storage Conditions

Must be stored away from heat, humidity and direct sunlight.



Poly-Strong PP WR®

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	24	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 degradation 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 in to four different colors to give a multi-colored effect on the thread.

Poly-Strong PP Eco®

100% polyester cospun sewing thread, produced by 100% recycled polyester. It offers all the advantages of a sustainable sewing thread without compromising sewing performance.