



**WATER REPELLENT
100% CONTINUOUS FILAMENT
POLYESTER SEWING THREAD**

Durafix WR®

Durak Durafix WR® is 100% high tenacity 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. 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. High tensile tenacity and optimum stretch specifications produce smooth and attractive sewing in leather shoes. It is especially lubricated to give a high durability-fineness ratio and a smooth, refined look. This lubrication also improves the sewing performance of the thread.



Product Properties

- Reliable sewing thread with natural appearance.
- Special finishing applications provide flawless sewing.
- High resistance against washing and chemical agents.
- Water passing through the pinhole is prevented when the correct sewing tension is used.



Durafix 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 Solutions: Unaffected by normal solvents, soluble in some phenolic compounds.

Bleaching: Unaffected.

Micro Organisms / (Fungus, mold): Unaffected.

Washing / Dry Cleaning: Unaffected.

Moisture Regain: %0.4

Presentation

DURAK Durafix 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)
6	500	31.000	25 - 35	160 - 280
8	330	22.000	25 - 35	160 - 280
10	280	18.000	25 - 35	160 - 280
11	270	15.000	25 - 35	160 - 280
15	175	11.000	25 - 35	140 - 160
20	135	9.200	25 - 35	140 - 160
30	80	5.500	14 - 26	130 - 140
40	60	4.700	14 - 26	100 - 110
50	55	3.500	15 - 23	100 - 110
60	45	2.950	14 - 24	90 - 100
70	40	2.650	14 - 24	90 - 100
80	35	2.280	14 - 20	75 - 90
100	27	1.800	14 - 20	70 - 90
120	24	1.600	14 - 20	70 - 90
150	20	1.200	14 - 20	70 - 90
180	16	950	14 - 20	65 - 75
200	12	760	14 - 20	65 - 75
300	10	650	14 - 20	55 - 60
400	6	450	14 - 20	55 - 60

Other Durafix Sub-Brands

- Durafix AS®** Antistatic sewing thread made of 100% high tenacity continuous filament polyester, pre-stabilized together with a conductive material. It is designed for use in applications where electrostatic charge is a problem.
- Durafix UV®** 100% high tenacity continuous filament polyester sewing thread with UV resistance. Durafix UV® minimizes UV destructions such as discoloration, low abrasion resistance and loss of tenacity.
- Durafix OS®** 100% high-tenacity continuous filament polyester 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.
- Durafix CRF®** 100% high tenacity continuous filament polyester 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.
- Durafix Multicolor®** Multicolor sewing thread made of 100% high-tenacity continuous filament polyester. It is injection dyed up to four different colors to give a multi-colored effect on the thread.
- Durafix Recycled®** High-tenacity polyester sewing thread, produced from 100% recycled polyester. It provides all the benefits a sustainable sewing thread has to offer without compromising from its sewing performance.