



**WATER REPELLENT
100% NYLON 6.6 SEWING THREAD**

Duralon WR®

DURAK Duralon WR® is a high tenacity nylon 6.6 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

- ❖ Water passing through the pinhole is prevented when the correct sewing tension is used.
- ❖ Has a soft structure which reduces the effects of needle heat and provides excellent abrasion resistance.
- ❖ Special finishing applications provide flawless sewing.
- ❖ High tenacity and sewing elasticity.

Duralon WR®

Areas of Use

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

Physical Properties

Melts at 260°C and softens at 190°C.

Shrinkage is less than 1% at 150°C.

Chemical Properties

Mineral acids: Soluble by strong mineral acids, resistant to weak acids.

Alkalis: Resistant to weak alkalis but it can be damaged by strong alkalis at high temperatures.

Organic solvents: Generally unaffected.

Bleaching: Unaffected.

Microorganisms (Mildew/Rot): Unaffected.

Moisture regain: %0.4



Presentation

Durak Duralon 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)
8	400	30.000	45 - 55	160 - 200
10	250	19.000	22 - 32	160 - 200
15	180	14.500	22 - 32	120 - 160
20	150	10.250	22 - 32	120 - 140
30	105	6.630	22 - 32	110 - 130
40	70	5.000	18 - 28	100 - 120
60	45	3.420	18 - 28	90 - 100
80	35	2.500	12 - 25	75 - 90

Other Duralon Sub-Brands

- Duralon AS®** Antistatic sewing thread made of 100% high tenacity nylon 6.6, pre-stabilized together with a conductive material. It is designed for use in applications where electrostatic charge is a problem.
- Duralon UV®** 100% high tenacity nylon 6.6 sewing thread with UV resistance. Duralon UV® minimizes UV destructions such as discoloration, low abrasion resistance and loss of tenacity.
- Duralon OS®** 100% high-tenacity nylon 6.6 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.
- Duralon CFR®** 100% high tenacity nylon 6.6 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.