



FLAME-RETARDANT 100% NYLON 6.6 SEWING THREAD

Duralon CFR®

DURAK Duralon CFR® is a high-tenacity nylon 6.6 sewing thread with flame-retardant properties. Its soft structure reduces the effects of needle heat and provides excellent abrasion resistance. The thread surface is coated with flame-retardant chemicals in accordance with chemical coating standards. Even after 20 washes, it maintains its flame-retardant properties according to NFPA 701. When removed from a heat source, the flame self-extinguishes immediately instead of spreading. Special finishing processes enhance sewing performance, while its regular structure, optimal hairiness, and variety of thicknesses ensure perfect seam appearance on fabrics ranging from lightweight materials to heavy denim.



Product Properties

- ✦ Flame retardant structure.
- ✦ High tenacity.
- ✦ Superior sewing performance with flawless seams.
- ✦ High sewing elasticity.
- ✦ Ideal for flame-retardant clothing requiring fine seams without compromising strength.

Duralon CFR®

Areas of Use

- Occupational Safety Products
- Furniture
- Decorative Products
- Home Textiles
- Footwear



Physical Properties

Melts at 260°C and softens at 190°C.

Shrinkage is less than 1% at 150°C.

Chemical Properties

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

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

Organic solvents: Generally unaffected.

Bleaching: Unaffected.

Microorganisms (Mildew/Rot): Unaffected.

Moisture regain: 0.4%

Product Options

Durak Duralon CFR® offers a wide range of colors in a variety of meter sizes and thicknesses.

Storage Conditions

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



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

• NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

DURALON CFR	LOSS OF MASS	BURN TIME
Before washing	%6,61	No drippings
After 10 washes	%3,09	No drippings
After 15 washes	%2,80	No drippings
After 20 washes	%1,64	No drippings



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Thickness and Strength Chart

Ticket No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
8	400	25.000	20 - 35	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 WR®**

100% high tenacity nylon 6.6 sewing thread with water repellent properties. It has a PFC-free water repellent surface coating.
- 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 degradation 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.