

100% CONTINUOUS FILAMENT POLYESTER FLAME-RETARDANT SEWING THREAD

Durafix CFR®

Durak Durafix CFR® is a 100% high-tenacity continuous filament polyester sewing thread treated with a flame-retardant chemical through a controlled coating process. The surface coating complies with relevant chemical application standards. Even after 20 washes, it maintains its flame-retardant performance in accordance with NFPA 701. When removed from a heat source, the thread self-extinguishes due to its flame-retardant treatment. Its high abrasion resistance ensures reliable performance in high-speed sewing applications. With high strength, bright colors, and a wide range of ticket sizes, it delivers excellent seam quality on fabrics ranging from lightweight materials to heavy denim.



Product Properties

- Flame retardant structure
- High tenacity
- Provides smooth and consistent sewing performance.
- Perfect for flame-retardant garments that demand fine seams with uncompromised strength.



Durafix CFR®

Areas of Use

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

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 Solutions: Unaffected by common solvents, soluble in some phenolic compounds
Bleaching: Unaffected.
Micro Organisms / (Fungus, mold): Unaffected.
Washing / Dry Cleaning: Unaffected.
Moisture Regain: 0.4%

Product Options

Durak Durafix 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 (60°C)	**ISO 105 C06**	**Min. 4**
Water Fastness	**ISO 105 E01**	**Min. 4**
Rubbing Fastness	**ISO 105 X12**	**Min. 4**
Hypoclorite Fastness	**ISO 105 N01**	**Min. 4**
Dry Cleaning Fastness	**ISO 105 D01**	**Min. 4**
Perspiration Fastness	**ISO 105 E04**	**Min. 4**
Light Fastness	**ISO 105 B02**	**Min. 4**

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

DURAFIX 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)
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	15-23	100-110
50	55	3.500	14-24	100-110
60	45	2.950	14-24	90-100
70	40	2.650	14-20	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 WR® 100% high tenacity continuous filament polyester sewing thread with water repellent properties. It has a PFC-free water repellent surface coating.

Durafix AS® Anti-static 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 concern.

Durafix UV® 100% high tenacity continuous filament polyester sewing thread with UV resistance. Durafix UV® minimizes UV degradation 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 Multicolor® Multicolor sewing thread made of 100% high-tenacity continuous filament polyester. It is injection-dyed in up to four different colors to create a multi-colored effect on the thread.

Durafix Eco® High-tenacity polyester sewing thread, produced from 100% recycled polyester. It offers all the advantages of a sustainable thread without compromising sewing performance.