



**DURAK**

## FLAME RETARDANT 100% POLYESTER CORESPUN SEWING THREAD

### Poly-Strong PP CFR®

DURAK Poly-Strong PP CFR® is a staple polyester coated continuous filament polyester core sewing thread produced by adding flame-retardant characteristics. The thread surface is coated with flame retardant chemicals in accordance with the standards of chemical coating method. Even after 20 washes, it can maintain its flame-retardant property according to NFPA 701. The flammability of the thread is reduced thus when it's removed from the heat source, flames will extinguish immediately instead of spreading as in regular polyester goods. Finishing process that increases sewing performance, regular structure, optimum hairiness level and various thickness according to different fabrics, provides perfect sewing appearance on every surface from thin fabrics to thick denim fabrics.



### Product Properties

- ✦ Flame retardant structure.
- ✦ High tenacity.
- ✦ Superior seamless sewing performance.
- ✦ Ideal for flame retardant clothing which requires very fine seams without compromising strength.

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# Poly-Strong PP CFR®

## Areas of Use

- Occupational Safety
- Decoration Products
- Furniture
- Home Textile

## 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 solvents:** Unaffected by normal solvents, soluble in some phenolic compounds.

**Bleaching:** Unaffected.

**Microorganisms (Mildew/Rot):** Unaffected.

**Washing / Dry Cleaning:** Unaffected.

**Moisture regain:** %0.4



## Presentation

DURAK Poly-Strong PP CFR 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

Tkt 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	21	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 WR®

100% polyester cospun sewing thread with water repellent. It has a PCF-free water repellent surface coating.

### Poly-Strong PP UV®

100% polyester cospun sewing thread with UV resistance. Poly-Strong(PP)UV® minimizes UV destructions 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 Multicolor®

Multicolor cospun sewing thread made of 100% polyester filament. It is injection dyed up to four different colors to give a multi-colored effect on the thread.

### Poly-Strong PP Recycled®

100% polyester cospun sewing thread, produced by 100% recycled polyester. It provides all the benefits a sustainable sewing thread has to offer without compromising from its sewing performance.