



FLAME-RETARDANT 100% STAPLE SPUN POLYESTER SEWING THREAD **Poly-Jet CFR®**

DURAK Poly-Jet CFR® is a 100% staple spun polyester sewing thread treated with a flame-retardant coating. The thread surface is coated with a flame-retardant chemical in compliance with relevant chemical coating 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 performance-enhancing finishing process, uniform structure, and controlled hairiness ensure smooth sewing performance. With a wide range of ticket sizes suitable for different fabric types, it delivers excellent seam appearance on fabrics ranging from lightweight materials to heavy denim.



Product Properties

- ✦ Flame-retardant structure
- ✦ Superior sewing performance
- ✦ Ideal for flame-retardant garments that require very fine seams without compromising strength.
- ✦ Reliable sewing thread with a natural appearance

Poly-Jet CFR®

Areas of Use

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



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 solvents: Unaffected by common solvents, soluble in some phenolic compounds.

Bleaching: Unaffected.

Microorganisms (Mildew/Rot): Unaffected.

Washing / Dry Cleaning: Unaffected.

Moisture regain: 0.4%

Presentation

Durak Poly-Jet 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

Poly-Jet 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)
30	80	3.450	18 - 26	110 - 130
50	55	2.250	16 - 24	100 - 120
80	40	1.500	16 - 24	80 - 100
120	27	950	16 - 22	75 - 90
150	18	700	12 - 18	65 - 75



Other Poly-Jet Sub-Brands

- Polyjet WR®**

100% staple spun polyester sewing thread with water repellent properties. It has a PFC-free water repellent surface coating.
- Polyjet UV®**

100% staple spun polyester sewing thread with UV resistance. Polyjet UV® minimizes UV degradation such as discoloration, low abrasion resistance and loss of tenacity.
- Polyjet OS®**

100% staple spun 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.
- Polyjet Multicolor®**

Multicolor staple spun sewing thread made of 100% polyester filament. It is injection-dyed in up to four different colors to give a multi-colored effect on the thread.
- Polyjet Eco®**

100% staple spun polyester sewing thread, produced by 100% recycled polyester. It offers all the advantages of a sustainable sewing thread without compromising performance.