

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 260ºC and softens at 220 - 240ºC.
Shrinkage is less than 1% at 150ºC.

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%

Product Options

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**

• NFA 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.