



FLAME-RETARDANT 100% CONTINUOUS FILAMENT POLYESTER EMBROIDERY THREAD

Poly-Soft CFR®

Durak Polysoft CFR® is a 100% high-tenacity continuous filament trilobal polyester embroidery thread produced with flame-retardant properties. The thread surface is coated with a flame-retardant chemical in accordance with the standards of the chemical coating method. Even after 20 washes, it maintains its flame-retardant property in accordance with NFPA 701. Its flammability is reduced and once the heat source is removed, the flame extinguishes immediately instead of spreading. It provides high resistance against abrasion, chemical effects and outdoor weather conditions in high-speed embroidery. With its bright colors, wide color range, thickness options and excellent embroidery performance, it offers a wide variety of application areas.



Product Properties

- ✦ Flame-retardant structure.
- ✦ High tenacity.
- ✦ Superior seamless sewing performance.
- ✦ Vivid and brilliant appearance.

Poly-Soft CFR®

Areas of Use

- ❖ Occupational Safety Products
- ❖ Decorative Applications
- ❖ 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%



Product Options

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

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





Poly-Soft CFR®

Storage Conditions

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

Points to consider

*Embroidered products are washable, foldable and resistant to sunlight and chlorine.
Use the washing and storing instructions below to achieve the best results;*

- 1) Products should not be stacked and folded when humid.
- 2) Embroidered products should not be put in the dryer without rinsing thoroughly.
- 3) In steam washers, the products should be hung on hangers and should not be in contact.
It is important that the heat level should not exceed 150°C.
- 4) Colors are manufactured according to industrial color tolerance.

Thickness and Strength Chart

Ticket No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
15	65	2.400	20 - 35	90 - 100
20	50	1.750	20 - 35	90 - 100
30	33	1.500	20 - 35	75 - 90
40	27	1.250	18 - 28	75 - 90
60	17	630	20 - 30	65 - 75

Other Polysoft Sub-Brands

Polysoft®

100% high tenacity continuous filament trilobal polyester embroidery thread.
It offers a vivid and brilliant appearance.

Polysoft AS®

Antistatic embroidery thread made of 100% high tenacity continuous filament trilobal polyester, pre-stabilized together with a conductive material. It is designed for use in applications where electrostatic charge is a problem.

Polysoft Multicolor®

Multicolor embroidery thread made of 100% high-tenacity continuous filament trilobal polyester. It is injection-dyed up to four different colors to give a multi-colored effect on the thread.

Polysoft Eco®

High-tenacity trilobal polyester embroidery thread, produced by 100% recycled polyester. It offers all the advantages of a sustainable thread without compromising sewing performance.