



FLAME-RETARDANT 100% CONTINUOUS FILAMENT POLYESTER EMBROIDERY THREAD

Poly-Soft CFR®

Durak Polysoft CFR® is a 100% high tenacity continuous filament embroidery thread produced by adding flame-retardant characteristics. The thread surface is coated with flame retardant chemical 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. It provides high resistance against abrasion, chemical effects and outdoor weather conditions in high speed embroidery. With its bright and wide range of colors, thickness options and excellent embroidery performance, it offers a variety of applications.



Product Properties

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

Poly-Soft CFR®

Areas of Use

- ❖ Occupational Safety
- ❖ Decoration 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 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 Polysoft 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



20 gr/lit
max. 30°C
max. 30 min





Poly-Soft CFR®

Storage Conditions

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

Points to consider

Embroidered products are washable, foldable and they are resistant against sun light 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 Recycled®

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