



SILICONE-FREE SPECIALLY LUBRICATED 100% POLYESTER CORESPUN SEWING THREAD

Poly-Strong PP OS®

DURAK Poly-Strong PP OS® is a versatile sewing thread with a high-tenacity continuous filament polyester core wrapped with staple polyester fibers. It is treated with special finishing processes to deliver high sewing performance in the most demanding applications. During the finishing process, controlled lubrication is applied with careful exclusion of substances such as silicone, grease, graphite, wax, and paraffin. It stands out with outstanding sewing performance, especially in demanding applications such as the automotive industry and dyehouse filters. Thanks to its regular structure and optimum hairiness level, it provides high sewing performance and an excellent stitch appearance.



Product Properties

- Reliable sewing thread with a natural appearance.
- Provides superior sewing performance through high-technology finishing processes and lubricants.
- High tenacity thanks to its strong structure.
- Does not contain substances such as silicone, grease, graphite, wax and paraffin.



Poly-Strong PP OS®

Areas of Use

- Automotive Sector
- Dyehouse Filters
- Dyehouse clothes and gloves
- Other dyehouse products



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 Poly-Strong(PP) OS 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

Storage Conditions

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





Poly-Strong PP OS[®]

Thickness and Strength Chart

Ticket 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	24	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 properties. It has a PFC-free water repellent surface coating.

Poly-Strong PP UV[®]

100% polyester cospun sewing thread with UV resistance. Poly-Strong(PP)UV[®] minimizes UV degradation such as discoloration, low abrasion resistance and loss of tenacity.

Poly-Strong PP CFR[®]

100% polyester cospun sewing 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.

Poly-Strong PP Multicolor[®]

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

Poly-Strong PP Eco[®]

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