

# POLY-STRONG®

## Profession in sewing and embroidery

DURAK Poly-Strong® threads are perfect sewing threads that provide high tenacity and optimal sewing performance with the special sewing performance, is produced in various ticket numbers.



### Product Properties

- DURAK Poly-Strong PP poly poly is suitable for every kind of clothing sewing from the thinnest fabric to the heavy fabric, denim and working clothes. It is a reliable sewing thread with a natural appearance.
- DURAK Poly-Strong PP provides advanced sewing performance in the toughest situations, having been processed with a special lubrication substance. In sewing it decreases breakage, increases productivity and improves after sewing quality.
- With its high durability continuous polyester filament on center, it ensures the usage of thinner threads, prevents puckering and provides thinner sewing appearance, without decreasing sewing resistance.
- DURAK Poly Strong PP is the most suitable sewing thread for both outdoor clothing and working clothes, keeps stability at high washing temperatures, shows high resistant to frictions.
- DURAK Poly-Strong PC poly cotton is a high-tech product which combines the resistance of polyester and natural properties of cotton. It provides smooth sewing performance even on toughest clothes.
- For its special lubrication substance, it provides proper and clean sewing.
- In PC threads, filament core of the cotton part has protective attributes that protects it from needle and iron heat.
- By means of the resistance values of the polyester center, it helps obtaining proper appearance stable seams on thin fabrics by using thinner sewing threads.
- With its high friction resistance, it is the suitable sewing thread for denim and working clothes. It has high durability and can be used in difficult conditions.
- Durak Poly-Strong PC is a multi-functioned core spun sewing thread where cotton thread is wrapped on polyester continues filament.

Durak Poly-Strong is produced according to OEKO-TEX Standard -100, Class 1.



### Usage Areas

- Denim Clothes,
- Thin cotton shirts and clothes,
- Thin fabrics and underclothes,
- Home Textile,
- Mattress and Quilting
- Various Leather Products,
- Apparel,
- Working Clothes,

# POLY-STRONG®

## DURAK Poly-Strong® PP

DURAK Poly-Strong® is a multi-functional core spun sewing thread where spun polyester is wrapped on continuous polyester filament.

### Product Information

DURAK Poly-Strong® PP poly-poly threads are perfect sewing threads that provides high tenacity and optimal sewing performance with the special sewing performance, is produced in various ticket numbers.

It is the best solution especially where tenacity and thinness is a priority in sewing and preventing from puckering during sewing.

DURAK Poly-Strong®PP threads are preferred especially in jeanswear sewing for their perfect abrasion resistance and resistance to bleaching process. It keeps their stability even at high washing temperatures.

### Physical and Chemical Properties

With the exception of extreme applications, polyester is impervious to most kinds of acids.

Polyester is durable against mild alkalis and average durable against intense alkalis.

It is not affected by common solvents. It might dissolve in phenol compounds.

It is not affected from bleaching process.

## DURAK Poly-Strong® PC

DURAK Poly-Strong® is a multi-functional core spun sewing thread where cotton thread wrapped on continuous polyester filament.

DURAK Poly-Strong®PC poly-cotton threads with their high resistance and structural properties that provide maximum sewing performance is produced in various ticket numbers. While core filament part of Durak Poly-Strong® PC threads provides perfect tenacity and resistance, the cotton part of the thread protects core polyester thread from needle and iron heat. It is the best solution especially where tenacity and thinness is a priority in sewing and preventing from puckering during sewing. It has high resistance against abrasion. They keep their stability even at high washing temperatures. On jeanswear washing, it has characteristic washing effect. After washing, it enables in sewing suitable colour tones with jeanswear.

With the exception of extreme applications, polyester part is impervious to most kinds of acids.

Cotton part is affected by hot non-concentrated and cold concentrated acids.

Polyester part is durable against mild alkalis and average durable against intense alkalis.

Cotton swells in hydroxide, does not lose significant resistance. Polyester is not affected by common solvents. It might dissolve in phenol compounds.

Cotton perishes against some solvents.

Polyester is not affected from bleaching process; cotton, on the other hand, fades with hypo chlorites and peroxides.

### Dyeing Technology and Lubrication

DURAK Poly-Strong® threads, with the use of environmental coloring substances and chemicals which provides high colour fastness and brightness, are dyed with a rich variety of colour choices. DURAK Poly-Strong® is produced with specially formulated lubricators in order to obtain maximum sewing performance and proper sewing appearance in high-speed sewing.

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### Presentation Method

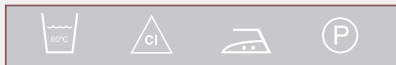
Poly-Strong® PP threads are produced with the size numbers of 18, 25, 30, 40, 50, 80, 100, 120 and 150 in various lengths and make-ups with rich colour choices.

Poly-Strong® PC threads are produced with the size numbers of 36, 40, 75 in various lengths and make-ups.

### Fastnesses

Washing Fastness	ISO 105 C06	4-5
Water Fastness	ISO 105 E01	4-5
Friction Fastness	ISO 105 X12	4-5
Dry-Cleaning Fastness	ISO 105 D01	4-5
Perspiration Fastness	ISO 105 E04	4-5
Light Fastness	ISO 105 B02	4

### Usage Advices



Sewing Threads	Ticket No.	Threads Type	Tex	Strength (CN)	Elongation %	Needle Size Nm
Poly-Strong	18	Poly-Poly	150	7500	min, 12-max,18	140-180
Poly-Strong	25	Poly-Poly	120	5780	min, 12-max,18	125-180
Poly-Strong	30	Poly-Poly	105	5000	min, 12-max,18	110-140
Poly-Strong	40	Poly-Poly	80	3740	min, 12-max,18	110-130
Poly-Strong	50	Poly-Poly	60	2880	min, 12-max,18	100-125
Poly-Strong	80	Poly-Poly	40	1860	min, 10-max,16	80-100
Poly-Strong	100	Poly-Poly	30	1410	min, 10-max,16	80-90
Poly-Strong	120	Poly-Poly	24	1180	min, 10-max,16	70-90
Poly-Strong	150	Poly-Poly	20	980	min, 10-max,16	60-80
Poly-Strong	180	Poly-Poly	19	920	min, 12-max,20	
Poly-Strong	220	Poly-Poly	14	620	min, 12-max,20	



Sewing Threads	Ticket No.	Threads Type	Tex	Strength (CN)	Elongation %	Needle Size Nm
Poly-Strong	20	Poly-Cotton	120	5550	min,22-max,30	125-180
Poly-Strong	30	Poly-Cotton	105	3920	min,20-max,28	110-140
Poly-Strong	36	Poly-Cotton	80	3724	min,20-max,22	110-125
Poly-Strong	40	Poly-Cotton	75	2842	min,19-max,21	100-110
Poly-Strong	50	Poly-Cotton	60	2780	min,20-max,28	100-125
Poly-Strong	75	Poly-Cotton	40	1862	min,20-max,22	90-100
Poly-Strong	120	Poly-Cotton	24	1030	min,18-max,24	

Durak Tekstil has right to change technical specifications without any notice.

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