



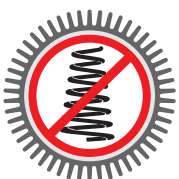
SEWING & EMBROIDERY BOBBIN THREAD

DURAK Duraless®

DURAK Duraless® pre-wound bobbin sewing thread has a special cavity structure in the middle and has the flexibility to be used with any bobbin in sewing machines. This product contributes 10% more to productivity by offering a longer thread length compared to standard sewing threads. DURAK Duraless® is offered in different thicknesses and bobbin lengths. They can be used safely in many applications such as denim clothing, garment, underwear, swimwear/bikini, sportswear, workwear, bedding/quilting, home textiles in the textile industry. Bedding and home textile products are in direct contact with the skin, thus the feeling of softness is very important. DURAK Duraless® offers a soft-to-the-touch feeling and it can easily create the desired patterns in embroidery applications on light and thin products such as tulle.

Instruction of Use;

- 1 - Take out the spring inside the case
- 2 - Take out the break piece on the case
- 3 - Thread should unwind in counter clock-wise direction



DURAK Duraless®

Areas Of Use

- Denim
- Ready garment
- Underwear
- Swimsuits
- Workwear
- Mattress & Quilting
- Home textiles
- Sports wear

Product Properties

- Contains 2 times or more thread per bobbin
- Reduces the machine maintenance cost
- The length difference between the bobbins is less than %1
- Eliminates the cost of buying metal part
- Does not contain knots
- Does not leave metal or plastic waste after consumption
- Ready to use on all sewing and embroidery machines without any changes on the machine

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

Thickness and Strength Chart

Ticket No.	Nominal Tex	Strength CN	Elongation %
70/2	16	900	12 - 16
140/1	14	850	12 - 16
190/1	19	1335	12 - 16
233/1	23	1550	14 - 18
280/1	28	1850	14 - 18
466/1	46	3200	20 - 24

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.4

Presentation

DURAK Duraless® offers a variety of meters size and thicknesses..

Storage Condition

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



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