



100% STAPLE SPUN POLYESTER SEWING THREAD

Poly-Jet WR®

DURAK Poly-Jet WR® is a reliable sewing thread made of staple spun polyester with water repellent. It is an excellent choice for outdoor products, shoes and accessories as it has a specially formulated surface that provides a high water resistance. It prevents water from being absorbed by the thread thanks to PFC-free water-preventing coating material. This coating prevents the water from flowing through the stitch holes when the correct sewing tension is used.



Product Properties

- Reliable sewing thread with natural appearance.
- Special finishing applications provide flawless sewing.
- High resistance against washing and chemical agents.
- Water passing through the pinhole is prevented when the correct sewing tension is used.

Poly-Jet WR®

Areas of Use

- Leather products
- Protective Footwear
- Walking Footwear
- Safety Footwear
- Furniture
- Protective clothing such as raincoat and coat

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 Poly-Jet WR® 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

Storage Conditions

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



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Thickness and Strength Chart

Ticket No.	Nominal Tex	Strength CN	Elongation %	Needle Size (Nm)
30	80	3.450	18 - 26	110 - 130
50	55	2.250	16 - 24	100 - 120
80	40	1.500	16 - 24	80 - 100
120	27	950	16 - 22	75 - 90
150	18	700	12 - 18	65 - 75



Other Poly-Jet Sub-Brands

Polyjet UV®

100% staple spun polyester sewing thread with UV resistance. Polyjet UV® minimizes UV destructions such as discoloration, low abrasion resistance and loss of tenacity.

Polyjet OS®

100% staple spun polyester sewing thread with special finishing processes in order to provide high sewing performance in the most challenging conditions. A controlled lubrication process is applied by excluding substances such as silicone, grease, graphite, wax and paraffin during the finishing process.

Polyjet CRF®

100% staple spun polyester 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.

Polyjet Multicolor®

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

Polyjet Recycled®

100% staple spun polyester sewing thread, produced by 100% recycled polyester. It provides all the benefits a sustainable sewing thread has to offer without compromising from its sewing performance.