



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.