

The demand for functional solutions that enhance user comfort in hot weather and in textiles that come into direct contact with the skin continues to grow. Particularly in sportswear, underwear, and casual wear, applications that provide a cooling sensation can significantly improve the overall user experience.

Durak Polysoft® Cool is a trilobal polyester embroidery thread that provides a cooling sensation through Xylitol and Erythritol applied to the thread surface using special techniques. With its bright appearance, high embroidery performance, and cooling effect that lasts for up to 20 washes, it enhances user comfort while combining aesthetics with functionality.

- Provides a cooling sensation in the embroidered area, enhancing user comfort.
- Delivers a cooling effect through its special formula containing Xylitol and Erythritol.
- Its bright trilobal polyester structure provides high luster and an aesthetic embroidery appearance.
- Maintains its cooling effect for up to 20 washes.
- Suitable for embroidery applications in underwear, sportswear, denim, women's and men's clothing, children's clothing, hats, and accessories.

Cooling Effect Embroidery Thread **Polysoft®** **Cool**

DURAK





FASTNESS

Washing Fastness	ISO 105-C06	Min.:4
Water Fastness	ISO 105-E01	Min.:4
Dry Rubbing Fastness	ISO 105-X12	Min.:4
Perspiration Fastness	ISO 105-E04	Min.:4
Light Fastness	ISO 105 B02	Min.:4

PHYSICAL CHARACTERISTICS

Melting	Melts at 260°C.
Softening	Softens at 220–240°C.
Shrinkage	Shrinkage is less than 1% at 150°C.

CHEMICAL PROPERTIES

Mineral Acids	Resistant to most mineral acids.
Alkalis	Generally unaffected by weak alkalis; however, they are not resistant to strong alkalis, particularly at high temperatures.
Organic Solvents	Generally unaffected; however, they dissolve in some phenolic mixtures.
Bleaching	Unaffected.
Microorganisms	Unaffected.
Washing / Dry Cleaning	Unaffected.
Regained Moisture	0,4%

THICKNESS AND STRENGTH CHART

TKT	Nominal Tex	Breaking Force CN	Elongation at Break %
40	27	1250	18–28

CARE INSTRUCTIONS

*To help maintain the cooling effect for longer, hand washing with soap and drying flat are recommended.



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