

MASTER

CUCIRINI RAMA



MASTER

100%
MODIFIED
HIGH TENACITY
CELLULOSIC
SPUN FIBER

Master is the biodegradable and eco-friendly thread offered by Cucirini Rama; it is a specially selected and modified cellulosic fiber designed for garment-dyeing of cotton or cellulosic fabrics.

It is also available in color upon request, with dyeing performed using specialized dyes that preserve the product's eco-sustainability features.

Its key features include :

- Reduced environmental impact, as it is sourced from "sustainable FSC-certified eucalyptus forests, all the way to the fiber."
- Cotton-like fiber with excellent tenacity.
- Excellent sewability.
- Presence of significant elongation, a beneficial feature for use with stretch fabrics.
- Color absorption similar to cotton.
- Unchanged under enzymatic treatments.

Characteristics



Reduced
environmental
impact



High
tenacity



Excellent
sewability



Good
elongation



Dye
absorption
similar to
cotton



No alteration
under enzymatic
treatments

Certifications



Eco-friendly



TENCEL®



Technical recommendations

The Master article is made from 100% heat set and stabilized Tencel. During the dyeing process, it does not shrink, preventing puckering, and retains its elongation value of approximately 15%. Based on our experience, these characteristics of tenacity and elongation confirm that the yarn, when used with the appropriate stitching techniques, is also suitable for moderately elastic fabrics. If the yarn is immersed in water or undergoes dyeing, it may experience a reduction in strength of about 13-15%, so this should be taken into account. However, during the drying process, it recovers its original strength values.

- **MASTER PPT** - A temperature of up to 98°C can be reached during dyeing. Strong acids (such as sulfuric, hydrochloric, hydrofluoric, formic, etc.) should not be used in the dyeing process. For neutralization or finishing, weak acids (such as acetic acid) can be used, if necessary, at a maximum concentration of 2 cc/lit, and the process should not exceed 60°C.
- **MASTER COLORED** - Avoid using strong acids (such as sulfuric, hydrochloric, hydrofluoric, formic, etc.) in treatments. Abrasion resistance is better than 100% cotton, but lower than poly poly. When using oxidizing agents like sodium hypochlorite or potassium permanganate, the concentrations should be checked beforehand, as these factors (concentration and contact time) can influence the results. The article is typically dyed with reactive dyes, ensuring good color fastness. For chlorine washes, it is recommended to use specific Indanthrene dyes.



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CELLULOSIC SPUN FIBER

| Item | Tex | Breaking Strength gr | Elongation % | Packaging | Needle |
|----------------|-----|----------------------|--------------|--------------------------------------|---------|
| MASTER ET. 120 | 25 | 830 | 13 - 15 | 5.000 mt. p.p.t. 5.000 mt. color | 70-80 |
| MASTER ET. 100 | 30 | 1.020 | 13 - 15 | 5.000 mt. p.p.t. 5.000 mt. color | 80-90 |
| MASTER ET. 75 | 40 | 1.530 | 15 - 17 | 5.000 mt. p.p.t. 5.000 mt. color | 90-100 |
| MASTER ET. 50 | 60 | 2.230 | 15 - 17 | 5.000 mt. p.p.t. 2.500 mt. color. | 100-110 |
| MASTER ET. 36 | 80 | 2.630 | 17 - 18 | 4.000 mt. p.p.t. 2.000 mt. color. | 100-110 |
| MASTER ET. 30 | 100 | 3.540 | 17 - 18 | 3.000 mt. p.p.t. 1.500 mt. color. | 110-120 |
| MASTER ET. 20 | 130 | 4.570 | 17 - 18 | 2.000 mt. p.p.t. 1.000 mt. color. | 120-130 |

The information provided in the technical data sheet is based on averages, and the values may vary. It is the sole responsibility of each user to verify the suitability of the sewing thread for their specific need. Cucirini Rama is available to provide advice for any usage inquiries.

Color fastness

| | | | | |
|----------------|------------------|-----|------|-------|
| WATER | EN-ISO 105-E01 | 4-5 | GREY | SCALE |
| DRY CLEANING | EN-ISO 105-D01 | 4-5 | GREY | SCALE |
| WASHING POWDER | EN-ISO 20105-C06 | 4-5 | GREY | SCALE |
| XENON LIGHT | EN-ISO 20105-B02 | 4-6 | BLUE | SCALE |
| RUBBING | EN-ISO 105-X12 | 4-5 | GREY | SCALE |

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CUCIRINI RAMA srl
Via A. Grandi, 12/B - 41033 CONCORDIA (Modena)
Tel. +39 0535 43411-Telefax +39 0535 54708 e-mail: rama@ramasrl.com

