

HOOK T91 CWT

Product Data Sheet
June 2017

PRODUCT DESCRIPTION



TEXACRO® Brand Hook T91 is a woven nylon hook, designed for high cycle life (when mated with Loop T93) and a wide range of applications. It is woven from nylon yarns and is available in widths up to 4 inches.

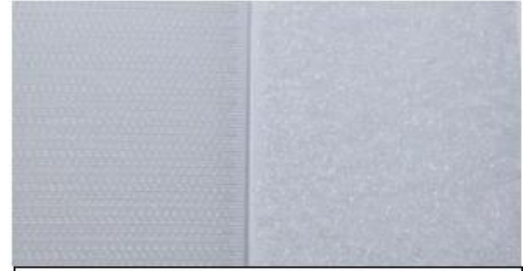
COUNTRY OF ORIGIN China

PRODUCT CONSTRUCTION	Fastener	TEXACRO® Brand Hook T91
	Construction	Woven
	Composition	Polyamide + Acrylic
	Thickness	Average 0.08 Inch(2.0 mm)
	Width	16, 20, 25, 30, 38, 50, 107 mm 5/8" 3/4" 1" 1 1/4" 1 1/2" 2" 4"

Color



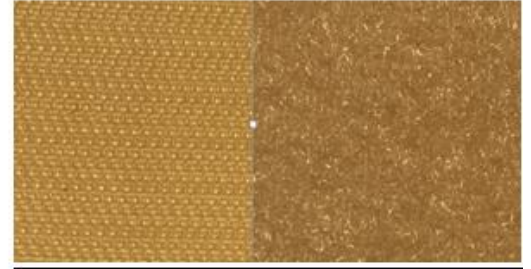
330 Black



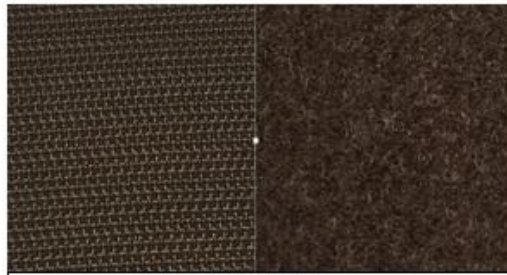
010 White



CWT 145 Navy



CWT 215 Beige



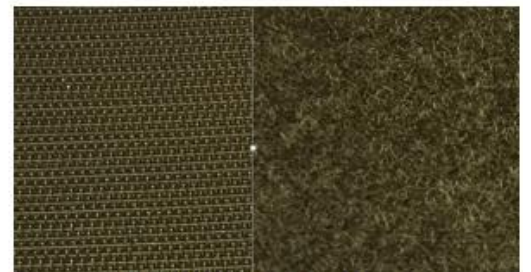
CWT 250 Brown



CWT 315 Grey



CWT 530 Red



CWT 640 Nato Green

PERFORMANCE CHARACTERISTICS*



Peel

Average 2.0 PIW (3.50 N/CM)



Shear

Average 20 PSI (13.78 N/CM²)



Cycle Life

50% loss after 1, 000 cycles

Fastener

TEXACRO® Brand Hook T91

**ADDITIONAL
PERFORMANCE
CHARACTERISTICS**



Outdoor Use

Due to the inclusion of nylon in the construction and its known tendency to deteriorate under UV light, TEXACRO® Brand HOOK T91 is not recommended for use under direct UV light contact.



Solvent Resistance

The nylon component in this fastener will resist some solvent cleanings and incidental exposure to common solvents but should not be exposed for extended lengths of time. The product should be tested in use for a specific application and has not been tested for resistance to transportation fluids such as gasoline, motor oils, and transmission fluids.



Flammability Resistance

TEXACRO® Brand HOOK T91 is not fire retardant and should not be used where flammability resistance is a concern.



Water/Humidity resistance

Nylon hook and loop fasteners will experience a decrease in performance when exposed to water /high humidity (> 80% H.R.) for extended lengths of time. Performance will usually be regained once the closure dries.



Sterilization

This product has not been tested for physical (autoclaving, steam, gamma rays...) or chemical sterilization (ethylene oxide, hydrogen peroxide...).



Colourfastness

Colourfastness to rubbing (GB/T 3921.3-1997) -> Min. 4

Colourfastness to water (GB/T3921-2008) -> Min. 4



Biocompatibility

TEXACRO® Brand HOOK T91 passes both cytotoxicity and skin irritation testing.



Static Discharge

TEXACRO® Brand HOOK T91 has not been tested for static discharge after opening and closing the fastener. If static discharge is a concern it should be tested for in the end use application.



Sewed Resistance

TEXACRO® Brand HOOK T91 can be sewn, sonically welded, or adhesively applied to various substrates. Users should test each method to determine which is ideally suited for their application.

Sewing: TEXACRO® Brand HOOK T91 can be sewn using similar methods as other nylon fabrics. A box stitch pattern is preferred when possible but most common stitch patterns will provide adequate strength.

Thread selection will vary by application and substrate but should provide strength similar to a seam.

Adhesive Backed: TEXACRO® Brand HOOK T91 is available with rubber based pressure sensitive adhesive. Please refer to the appropriate adhesive technical data sheet when selecting an adhesive for a particular application.

Sonic Welding: TEXACRO® Brand HOOK T91 can be sonically welded to like materials. Manufacturers of sonic welding equipment should be consulted for specific weld parameters due to the variations in horn and material selection, and power output.

APPLICATION IDEAS

Below are some typical applications where TEXACRO® Brand HOOK T91 has been used.

It is recommended that testing be completed on the product prior to use since the conditions of each application can cause variations in performance.



MEDICAL & ORTHOPAEDICS

Healthcare:

The healthcare market has many applications where TEXACRO® Brand HOOK T91 can be utilized. Some typical applications are in orthopaedic braces, hospital equipment, and home medical equipment.



INDUSTRIAL

Sports and Recreation

The versatility and durability of TEXACRO® Brand HOOK T91 make it an ideal choice for the demands of sports and recreation products. It is an integral part of many types of sports bags, sports and recreation helmets, and protective gear and equipment.



INDUSTRIAL

Apparel and Footwear

TEXACRO® Brand HOOK T91 got its start in apparel and footwear applications and remains the gold standard for quality and performance in the industry. Some of today's demanding applications are cuff closures, removable padding, closures for wind covers over zippers in high performance jackets, and sneaker closures.

CERTIFICATIONS

TEXACRO® Brand HOOK T91 product is certified under:

- Oeko-TEX Standard 100 Class I
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REGULATORY ELEMENTS⁽³⁾

TEXACRO® Brand HOOK T91 product meets the requirements of following documents:

- Regulation (EC) No 1907/2006 REACH
- Directive 2011/65 (RoHS) and amendments

⁽³⁾ List of most important Regulatory Requirements. Ask for specific Regulatory Requirements per product.

PRODUCT USE

The information, statements, and comments contained within this document are based on our experience and testing and are believed to be accurate. However, because there are many factors involved in specific applications that can impact end use and performance, product users should always test the product for its ability to meet the requirements of their specific use and method of application.

LIMITED WARRANTY

The Velcro Industries ⁽¹⁾ warrant that each product will substantially comply with its written specifications at the time of shipment. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. The product user is responsible for determining whether the product is fit and suitable for intended application. If the product does not meet specifications as warranted, we will, at our option, repair or replace the product, or credit or refund the purchase price. The foregoing constitutes the user's sole remedy and our sole obligation hereunder.

LIMITATION OF LIABILITY

To the maximum extent permitted under applicable law, our liability for any losses or damages relating to use of the product shall not exceed the purchase price for such product, regardless of whether such losses or damages are direct, indirect, special, incidental or consequential, and regardless of the legal theory asserted, including, but not limited to, warranty, contract, negligence or strict liability.

Given the diversity of use of our products we advise our customers to ensure themselves that the product meets the requirements of their application. The responsibility for the application and use of the product remains with the customer.

(*) The Velcro Industries include Velcro USA Inc. and all affiliates involved in development, manufacture or sale of the Products.

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