



ULTRA-MATE® BRAND PRODUCTS

HIGH TECHNOLOGY HOOK FASTENERS

ULTRA-MATE® brand High Technology Hook (HTH) products are engineered molded hook fasteners which provide superior closure with a variety of loops. The result of years of research by Velcro Industries, ULTRA-MATE® products provide an unprecedented range of fastening performance characteristics. Please see individual Product Information Guides for performance specifications.

- **4 proprietary hook shapes**
- **A wide range of closure strengths**
- **Cycling capabilities from disposable to long life**
- **Hook density ranges from 130 to 900 hooks per inch**
- **Polymer properties demanded by the application - UV, flame, moisture and acid resistant**
- **Dielectrically and sonically sealable, sewable**
- **Flexibility - ideal for stitching and slitting, as well as straight and die-cutting**
- **Adaptability - products can incorporate custom features, from unidirectional hooks to wide selvages or channels**
- **Consistent hook shape and height**
- **Available in widths up to 12-3/4 inches**

POLYMERS AVAILABLE

- **Nylon**
- **Polyester**
- **Polypropylene**
- **Polyethylene (High and Low Density)**
- **Vinyl**

METHODS OF ATTACHMENT

- **Sewing**
- **Pressure Sensitive Adhesives (see back cover)**
- **Ultra-Sonic Welding**
- **RF Sealing**

FABRICATION & PACKAGING

- **Straight and Die-Cut Pieces**
- **Cut and Mated Pieces**
- **Scored Pieces**
- **Perforated Pieces and Rolls**
- **Custom Manufactured Straps**
- **Complete Product Assemblies**

In addition, Velcro USA Inc. can package ULTRA-MATE® products for direct shipment to your customers.

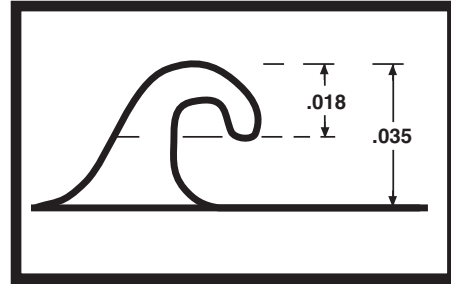
- **Poly Bags**
- **Boxes**
- **Thermoform Blisters**
- **UPC Coding**

Linear yardage ULTRA-MATE® products are packaged for customer usage in a variety of methods, including small reels and cross wound spools. Die-cut and straight cut pieces are shipped in packages and quantities consistent with customer usage and attachment methods.

ULTRA-MATE® Brand HTH Fasteners From Velcro USA Inc.

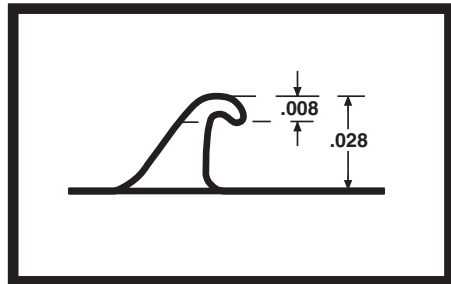
HTH 15 HOOK

- DESIGNED TO ENGAGE IN HIGH PROFILE KNITTED AND WOVEN LOOPS
- 750 HOOKS PER SQUARE INCH
- HOOK HEIGHT: 0.035 IN (0.875 MM)
- AVAILABLE IN STANDARD BACK OR ADHESIVE BACK
- LINT RESISTANT
- STANDARD HOOK PRODUCTS: 704 (POLYESTER), 705 (NYLON 12), 706 (NYLON 12), 711 (HIGH DENSITY POLYETHYLENE)

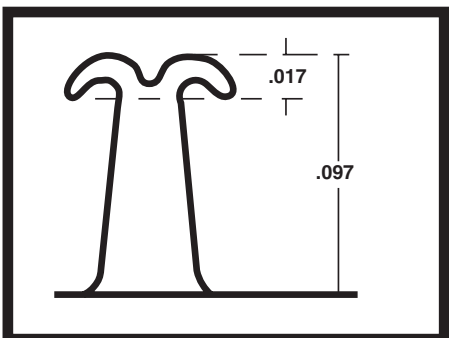


HTH 22 HOOK

- DESIGNED FOR SUPERIOR ENGAGEMENT WITH LOW PROFILE LOOPS
- 900 HOOKS PER SQUARE INCH
- HOOK HEIGHT: 0.028 IN (0.7 MM)
- AVAILABLE IN STANDARD BACK AND ADHESIVE BACK
- LINT RESISTANT
- STANDARD HOOK PRODUCTS: 805 (NYLON 12), 811 (HIGH DENSITY POLYETHYLENE), 848 (VINYL)



HTH 24 HOOK

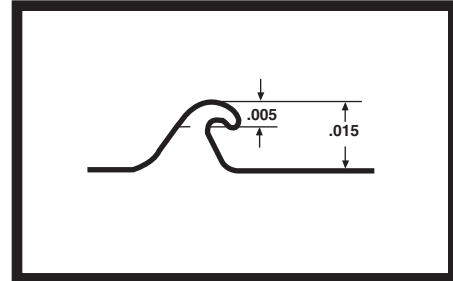


- DESIGNED TO PERFORM LIKE A TRADITIONALLY MOLDED VELCRO® BRAND HOOK
- HIGH STRENGTH, LOW CYCLE CLOSURE
- 130 HOOKS PER SQUARE INCH
- HOOK HEIGHT: 0.0968 IN (2.42 MM)
- IDEAL FOR MOLD-IN APPLICATIONS
- STANDARD HOOK PRODUCTS:
 - 751 - STANDARD BACK OR (NYLON 6/6)
 - 757 - PRESSURE SENSITIVE ADHESIVE (NYLON 12 COPOLYMER)
 - 758 - LAMINATED TO A POLYESTER LOOP FOR EASY ADHESION (NYLON 6/6)

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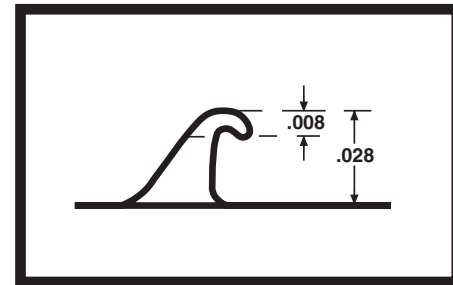
HTH 29 HOOK

- IDEAL FOR LOW-CYCLE OR DISPOSABLE APPLICATIONS
- DESIGNED TO ENGAGE WITH LOW PROFILE LOOPS OR NON-WOVEN FABRICS
- AVAILABLE IN NYLON, POLYPROPYLENE, OR POLYETHYLENE
- 1700 HOOKS PER SQUARE INCH
- HOOK HEIGHT: 0.020 IN (0.5 MM)

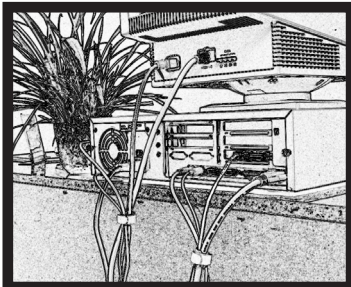


RF WELDABLE HOOK FASTENER

- OFFERS EXCELLENT RF WELDING TO MOST FLEXIBLE VINYL FILMS
- ELIMINATES NEED FOR HEAT-ACTIVATED ADHESIVE OR SOLVENTS
- **HTH 848** - FEATURES A 22 HOOK SHAPE IN VINYL AND IS USED WITH VELCRO® BRAND LOOP 3607 OR LOOP 3906 (LOOPS HAVE VIRGIN VINYL FILM LAMINATED TO FABRIC FOR SEALING TO SUBSTRATE)
- **HTH 748** - FEATURES A 15 HOOK SHAPE IN VINYL AND IS USED FOR ENGAGEMENT WITH HIGH PROFILE LOOPS SUCH AS LOOP 1000



ONE-WRAP® BRAND CORD & CABLE STRAPS



- **ONE-WRAP® STRAPS (HTH 888)** - A UNIQUE BACK-TO-BACK FASTENING SYSTEM FEATURING A POLYETHYLENE HOOK LAMINATED TO A NYLON LOOP WITHOUT THE USE OF AN ADHESIVE; AVAILABLE IN ELEVEN COLORS
- **ONE-WRAP® STRAPS (HTH 889)** - A FIRE RETARDANT VERSION OF ONE-WRAP® TECHNOLOGY MEETS UL 94-V2 AND FAR 25.853 A/B REQUIREMENTS; AVAILABLE IN TWO COLORS
- APPROVED FOR USE IN AIR HANDLING APPLICATIONS PER NEC SECTION (c) & (d)
- MANUFACTURED IN WIDTHS UP TO 12-3/4"
- CAN BE SLIT, PERFORATED AND DIE CUT TO MEET SPECIFIC REQUIREMENTS
- CUSTOM PRINT STRAPS WITH LOGOS, PART OR IDENTIFICATION NUMBERS, OR CONTACT INFORMATION

ADHESIVES	MOST ULTRA-MATE® BRAND PRODUCTS ARE AVAILABLE WITH AT LEAST ONE OF THREE PRESSURE SENSITIVE ADHESIVES.
<p>TEMPO™ (0114)</p> <ul style="list-style-type: none"> A STRONG RUBBER-BASED, PRESSURE SENSITIVE ADHESIVE DESIGNED FOR APPLICATIONS WITH A TEMPERATURE RANGE FROM 0°F TO 160°F. <p>VECTOR™ (0115)</p> <ul style="list-style-type: none"> AN AGGRESSIVE, OLEFIN-BASED PRESSURE SENSITIVE ADHESIVE DESIGNED FOR APPLICATIONS WITH A TEMPERATURE OPERATING RANGE FROM 0°F TO 120°F. 	<p>SPECTRUM™ (0172)</p> <ul style="list-style-type: none"> AN ACRYLIC PRESSURE SENSITIVE ADHESIVE FOR SUPERIOR BOND STRENGTH WITH A TEMPERATURE OPERATING RANGE OF 0°F TO 225°F.

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**FOR SALES AND TECHNICAL INFORMATION,
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