

VELCRO® Brand

Hook 832-9971/Loop 3325-0609 HANGables Removable Wall Fasteners Adhesive System

Technical Data Sheet

Date (September/2016)

Product Description

VELCRO® Brand HTH Hook 832, is an extruded LLDPE resin, designed for a wide range of applications. It is hook shape HK 29 available at 6.5” width. When used with a permanent acrylic adhesive it is coated direct onto the HTH. The finished coated hook product 832-9971.

VELCRO® Brand Loop 3325 (p/n 107801) is a knit, napped, and binder coated polyester (PET) loop designed for dimensional stability in a variety of environments. In this program, white loop 3325 is adhesively bonded with an acrylic PS to a metalized PET film printed with our logo. The film has a silicone adhesive applied to the exterior surface. The finished coated loop product 3325-0609 is VPN 107670.

Adhesive 09 is the removable silicone adhesive used in this program. Silicone adhesive is used because they it is extremely stable over long periods of time, and has a high shear strength with a minimum build in peel over time. Due to its low surface tension, they will stick to a variety of surfaces.

Adhesive 71 is the permanent acrylic adhesive used in this program. Acrylic adhesive is used because it is extremely stable over long periods of time.

HANGables™ Removable Wall Fasteners



Typical Closure System Construction and Performance H832-L3325	The following information should be considered typical and is intended to be used as a reference only. This information should not be used for specification purposes. Suitable performance for a specific intended application should be evaluated by the user.			
DESCRIPTION	CRITERIA	Velcro® Brand loop 3325-0609	Velcro® Brand hook 832-9909	SPECIFICATION & TOLERANCE
				RELEASE CRITERIA
PRODUCT CONSTRUCTION	COLOR	WHITE 010	WHITE 013	
	MATERIAL	PET	LLDPE	
	RELEASE LINER			UNPRINTED
	FILM			Loop: PET FILM PRINTED WITH 2 COLOR VELCRO® LOGO Hook: UNPRINTED
	ADHESIVE	REMOVABLE PRESSURE SENSITIVE	PERMANENT ACRYLIC PSA	
PRODUCT PERFORMANCE	CLOSURE PEEL (finished)			0.14 PIW MIN
	CLOSURE SHEAR (finished)			8.7 PSI MIN
	SILICONE ADHESIVE PEEL			Loop 3325 2.1 PIW MIN
	ACRYLIC ADHESIVE PEEL			Hook 832 13 PIW AVG
	MATED SHEAR TEST			168 HOURS MIN with 2# weight

**Attachment
Technique**

Adhesive 09 & 71 should be applied with firm pressure across the entire closure ensuring good contact is made with the substrate. As with all VELCRO® Brand adhesives, the substrate should be cleaned and fully dried prior to application of the adhesive.

Characteristics:

Flammability Resistance: VELCRO® Brand Hook 832 with adhesive 71 & Loop 3325 with 09 adhesive system is not fire retardant and should not be used where flammability resistance is a concern.

Water/Humidity resistance: LLDPE hook and PET loop fasteners have low moisture regain, and are stable to dimensional changes due to temperature and humidity. The intended application with adhesive 99 is on interior surfaces in a dry location, and not tested in outdoor or underwater use. The closure will however, withstand incidental exposure to water.

Outgassing: Outgassing for space or vacuum applications has not been tested. It is unknown if this product will pass ASTM E595 for outgassing. Please refer to <http://outgassing.nasa.gov/> for a list of products tested at the Goddard Space Flight Center, manufacturer code VEL.

Sterilization: These products have not been tested for autoclaving, gas, or steam sterilization.

Biocompatibility VELCRO® Brand Hook 832 with adhesive 71 & Loop 3325 with 09 adhesive system has not been tested for cytotoxicity and skin irritation testing or biocompatibility.

Static Discharge: VELCRO® Brand Hook 832 with adhesive 71 & Loop 3325 with 09 adhesive system has not been tested for static discharge after opening and closing the fastener. If static discharge is a concern it should be tested in the end use application.

Outdoor Use: LLDPE hook and PET loop have good UV properties, but this system has not been tested for resistance to UV exposure. The system has been tested at normal operating temperatures and expected to perform satisfactorily in indoor use. The system may perform in certain types of outdoor applications, but should be thoroughly tested before use.

Solvent Resistance: The LLDPE AND PET HOOK AND LOOP material will resist incidental exposure to common solvents but should not be submerged or 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.

Washing and Dry Cleaning: The Hook 832/Loop 3325 system should not be washed or dry cleaned.

Repositioning: VELCRO® Brand Loop 3325 with 09 adhesive system is designed to be removed. It can be repositioned to a clean surface but there is some loss of adhesion when repositioned. No data exists on adhesion loss after numerous adhesive repositioning cycles.

Shelf Life: Adhesive 71 & 09 has a shelf life of 2 years from production date. Keep cool, dry and protect from sunlight.

- Storage** General storage conditions: 65°F – 75°F (18C - 24C) with relative humidity of 40% – 65%. To extend shelf life, store in original packaging. Removal of release liner prior to application will shorten the product life cycle.
- 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** Velcro Industries* 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.
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USA
Velcro USA Inc.
Tel: (800) 225 0180
marketing@velcro.com
www.velcro.com

Spain
Velcro Europe S.A.
Tel: (34) 93 758 32 98
infovelcro@velcro.es
www.velcro.es

Italy
Velcro Italia, S.R.L.
Tel: (39) 039 62 70 01
commerciale@velcroitalia.it
www.velcro.it

China
Velcro Fastening Systems
Company Limited
Tel: (86) 21 6241 2077
www.velcro.com.cn

Canada
Velcro Canada Inc.
Tel: (800) 683 5276
canada@velcro.com
www.velcro.ca

Germany
Velcro GMBH
Tel: (49) 7141 991 19-0
info@velcro.de
www.velcro.de

UK
Velcro Limited
Tel: 44) 1606 73 88 06
uksales@velcro.com
www.velcro.co.uk

Hong Kong
Velcro Hong Kong Ltd.
Tel: (852) 2570 3698
www.velcro.com.hk

Mexico
Velcro de Mexico, S.A. de
C.V.
Tel: (52) 55 5005 3300
salesmc@velcro.com
www.velcrodemexico.com

France
Velcro Industries France
S.A.
Tel: (33) 1 34 38 78 88
info@velcro.fr
www.velcro.fr

Australia
Velcro Australia Pty. Ltd.
Tel: (61) 3 9703 2466
sales@velcro.com.au
www.velcro.com.au

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