

Technical Data Sheet

Hook & Loop

Product Description

Coats Connect FAH1000/FAL1000 is a high strength standard hook and loop fastener.

Product Composition

	Hook	Loop
construction	woven with cold-cut sewing edges	woven with cold-cut sewing edges
composition	100% polyamide	100% polyamide
coating	polyurethane coating	polyurethane coating
dyestuffs	no harmful AZO dyestuffs	no harmful AZO dyestuffs

Technical Information

Standard Parameters

standard width with sewing edges*	mm	16	20	25	30	38	50	100
	inches	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	4"
width tolerance	mm	±1.0			±1.5			-1.0 / +2.0
shade range*		Coats Connect shade card						
thickness after closing (hook & loop)	mm	4.2 (±0.5)						
average weight	g/m ²	Hook: 325g/m ² (±10%), Loop: 320g/m ² (±10%)						
*other widths and shades available upon request								

Physical & Chemical Characteristics

resistance to heat	softening point 180°C, melting point 200-215°C
resistance to temperature	no change at -30°C to +140°C
strength in water	retain 50% of closure strength in water and recovers 100% after drying
resistance to chemicals	resistance against diluted acids & alkalines at low temperature, trichloroethylene & solvents used for dry cleaning
influence of insects, mold	not affected
influence of humidity	in humidity over 90% RH, closure strength is somewhat reduced
resistance to UV	limited resistance, use polyester tape if exposure to high UV light
shrinkage after washing at 60°C /30 min.	hook & loop (lengthwise/widthwise): max. 2%
water absorption	max. 4% (cond. room)
fraying	none

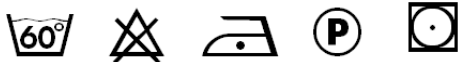
Colour Fastness

ISO 105-B02	light*	>5 on a scale of 8
ISO 105-E01	water & seawater**	4 on a scale of 5
ISO 105-C10 C	washing 60°C	4 on a scale of 5
ISO 105-E04	sweat (excl. navy)	4 on a scale of 5
ISO 105-X12	rubbing wet & dry	4 on a scale of 5
ISO 105-X11	ironing	4 on a scale of 5
ISO 105-D01	dry-cleaning	4 on a scale of 5

* ageing or U.V. influence should not result in yellowing of the tape (mainly in optical white)
 ** neon, dark red & dark blue colours are excluded

Care Instructions

cleaning in closing position to protect fastener and laundry



Strength Parameters*

	Test Method	Hook & Loop	
no. of cycles	EN 1414	after 1 opening & closing	after 10,000 openings & closings
peel strength	EN 12242 (N/cm width)	3.0 (2.0)	min. 1.0
shear strength	EN 13780 (N/cm ²)	13.0 (10.0)	min. 4.0

Strength Parameters*

	Test Method	Hook	Loop
tensile strength	N/cm - lengthwise ISO 13934-1	384 (200)	301 (200)
stretch before breaking	%- lengthwise ISO 13934-1	40% (30%)	40% (30%)

avg. values (tested at 20°C & 65% humidity)
*individual test results can vary, min. values between brackets

Durability

Test	Method	Openings & Closings	Hook & Loop
durability test	EN 1414	after 10,000 times	slight visual change

Certification

Oeko-tex standard 100 class II

Article Number / Make Up

Art. No.: FAH1000 – Hook - rolls of 25 m / various widths & shades available

Art. No.: FAL1000 – Loop - rolls of 25 m / various widths & shades available

General Safety Information

Since conditions and applications vary considerably in the use of hook & loop, user should assure herself or himself by preliminarily testing that the hook & loop is suitable for the end use intended.

Further Assistance

Please contact your local Coats representative for further assistance.