

## Technical Data Sheet

### Recycled Polyamide Hook & Loop

#### Product Description

Coats EcoVerde Connect FAK1000 / FAO1000 is a high strength recycled polyamide hook and loop fastener.

#### Product Composition

	Hook	Loop
Construction	woven with cold-cut sewing edges	woven with cold-cut sewing edges
Composition	Recycled pre-consumer polyamide (nylon) + polyamide (nylon)	Recycled pre-consumer polyamide (nylon) + polyamide (nylon)
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			±5.0
Shade range*		Coats EcoVerde Connect shade card						
Thickness after closing (hook & loop)	mm	3.0 (±0.5)						
Average weight	g/m2	Hook: 325g/m² (±10%), Loop: 320g/m² (±10%)						
*Other widths and shades available upon request								

## Physical & Chemical Characteristics

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

## Colour Fastness

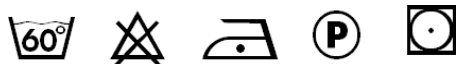
<b>ISO 105-B02</b>	light*	>5 on a scale of 8
<b>ISO 105-E01</b>	water & seawater**	4 on a scale of 5
<b>ISO 105-C10 C</b>	washing 60°C	4 on a scale of 5
<b>ISO 105-E04</b>	sweat (excl. navy)	4 on a scale of 5
<b>ISO 105-X12</b>	rubbing wet & dry	4 on a scale of 5
<b>ISO 105-X11</b>	ironing	4 on a scale of 5
<b>ISO 105-D01</b>	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 <sup>2</sup> )	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, Product Class I  
Global Recycled Standard 4.0

## Article Number / Make Up

Art. No.: FAK1000 – Hook - rolls of 25 m / various widths & shades available

Art. No.: FAO1000 – 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.

## Shelf Life

Coats EcoVerde Connect should be stored in a cool (5°C to 25°C) and dry place (less than 70% relative humidity) and used within one year of date of receipt.

## Further Assistance

Please contact your local Coats representative for further assistance.