# **VELCRO® BRAND ALFA-LOK® FASTENER**

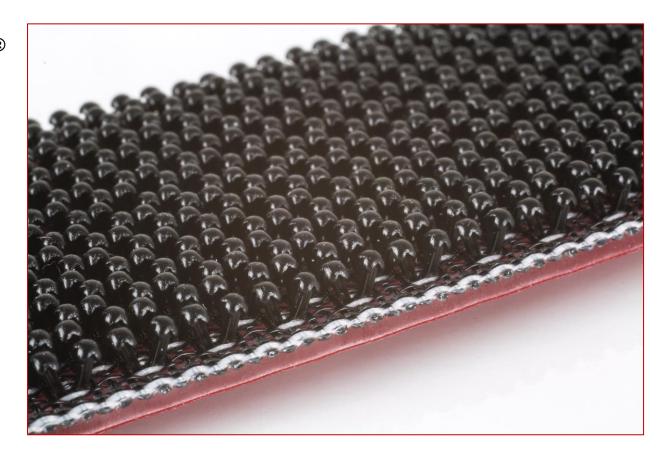


**Velcro Companies** 

January 2022 Barcelona, Spain **Daniel Moreno** 

# Agenda

- 1. Why chose VELCRO® Brand ALFA-LOK® Fasteners
- 2. What are the main benefits
- 3. Technical details
- 4. Product & adhesive range
- 5. Where to use it



#### WHY CHOSE VELCRO® Brand ALFA-LOK® Fasteners

#### The VELCRO® Brand ALFA-LOK® Fastener

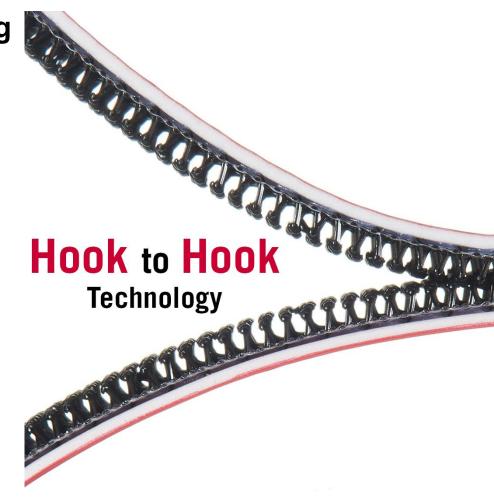
is a **self-engaging** single component "**snap**" fastener ideal to **replace mechanical fasteners** for indoor and outdoor applications that require a **reliable**, **durable and high-performance** connection.





#### WHAT ARE THE MAIN BENEFITS

- → Strong & durable alternative to mechanical fastening systems such as screws & nails. Provides high tensile disengagement & shear strength
  - Invisible & avoids the need to make holes
  - Corrosion free & foam helps reduce vibration
- → Easy to position & engage in any direction
- → Audible snap closure
- → Temperature, UV and moisture resistant
- → Adhesive range to cover your needs (surface energies & temperature range)







# **TECHNICAL DETAILS**



Data  VELCRO® Brand  ALFA-LOK® Faster		
Construction	Woven quadrilobal mushroom tape	
Base material	Base material  Base: Polyester (PES)  Mushrooms: Polypropylene (PP)	
Heads/cm <sup>2</sup>	Average 48 heads/cm <sup>2</sup>	
Thickness single and close position	Single: Average 3,6 mm Close position: Average XX mm	
Tensile disengagement (0-180°)	Average 40 N/cm <sup>2</sup>	
Tensile engagement (0-180°) Average 12 N/cm²		
Shear Strength	Average 50 N/cm <sup>2</sup>	
Application method	Sew On, Adhesive backed	
FR capabilities	FMVSS 302: Self-Extinguishing (SE) DIN4102: Classified B-2	



## **PRODUCT & ADHESIVE RANGE**

Product Range	VELCRO® Brand ALFA-LOK® Tape PS-6411 Low Surface Energy	VELCRO® Brand ALFA-LOK® Tape PS-5345 General Purpose	VELCRO® Brand ALFA-LOK® Tape PS-5310 High Surface Energy	All versions available in
Base Material	Modified Solvent based Acrylic Polymer	Modified Solvent based Acrylic Polymer	Modified Solvent based Acrylic Polymer	• 25mm width
Acrylic adhesive colour	Black	White	Transparent	<ul> <li>Hook color black &amp; white</li> <li>standard put-up 25m rolls</li> </ul>
Temperature range of use	Long Term: From -40 °C to +90 °C Short Term: 120 °C	Long Term: From -40 °C to +100 °C Short Term: 160 °C	Long Term: From -40 °C to +100 °C Short Term: 160 °C	<ul><li>with flanges</li><li>Box quantity of 100 m.</li></ul>
Peel 180º Adhesion (FINAT-FTM 01) AVG	12 N/cm * 15 N/cm * - (after 24 h)	11 N/cm * 14 N/cm * - (after 24 h)	11 N/cm * 16 N/cm * - (after 24 h)	
Static Shear (ASTM 3654)**	1,000 gr. at 22 °C 500 gr. at 66 & 93 °C 250 gr. at 121 °C	1,000 gr. at 22 °C 500 gr. at 66 & 93 °C	1,000 gr. at 22 °C 500 gr. at 66 & 93 °C	* Average according typical values.  The specifications are as a reference and are pending to confirm.
Softening Point	90 °C	90 °C	100 °C	,
Tack	Very High	High	Medium/Low	** Weight that ½ square inch will hold 10,000 minutes (7 days).
FR Capabilities	FMVSS 302: Burn (B) ≤ 100mm/min***	FMVSS 302: Burn (B) ≤ 100mm/min***	FMVSS 302: Burn (B) ≤ 100mm/min***	*** Reference values for combination VELCRO® Brand ALFA-LOK® Tape + PS Adhesive
Application	High, medium and low surface energy	High and medium surface energy, general use	High surface energy, highly transparent bond	





## ADHESIVE RANGE SUBSTRATE COMPATIBILITY

SUBSTRATES	VELCRO® Brand ALFA-LOK® PS 5310 High Surface Energy	VELCRO® Brand ALFA-LOK® PS 5345 General Purpose	VELCRO® Brand ALFA-LOK® PS 6411 Low Surface Energy
GLASS	$\checkmark$	$\checkmark$	$\checkmark$
ALUMINUM (ANODIZED, RAW)	✓	<b>√</b>	<b>√</b>
STEEL (STAINLESS, GALVANIZED)	<b>√</b>	$\checkmark$	$\checkmark$
PLYWOOD/MDF	<b>√</b>	<b>√</b>	<b>√</b>
FORMICA (POLISHING SIDE)	×	<b>√</b>	<b>√</b>
CARDBOARD	×	$\checkmark$	$\checkmark$
PAINTED WALLBOARD	✓	<b>√</b>	<b>√</b>
CONCRETE	✓	✓	<b>√</b>
STONE	✓	<b>√</b>	<b>√</b>
ABS	✓	<b>√</b>	<b>√</b>
POLYESTER	✓	<b>√</b>	<b>√</b>
VINYL	✓	<b>√</b>	<b>√</b>
POLYACRYLIC/PMMA	<b>√</b>	<b>√</b>	<b>√</b>
POLYCARBONATE	<b>√</b>	<b>√</b>	<b>√</b>
POLYETHYLENE	<b>√</b>	<b>√</b>	<b>√</b>
POLYPROPYLENE	<b>√</b>	<b>√</b>	<b>√</b>















## WHERE TO USE IT

**Exterior Accessories** 



**Interior Accessories** 



**Maintenance, Repair & Operations** 



**LED Lighting** 



**Panel Fixation** 



Signage, Displays & Event







#### WHERE TO USE IT

**Interior Fixation Automotive** 



**Headliner Fixation Automotive** 



**Mirror Fixation Automotive** 



**Indoor/outdoor Trains & Buses** 



**Indoor/outdoor Public Transport** 



**Campers & Boats** 







#### **VIDEO**





