

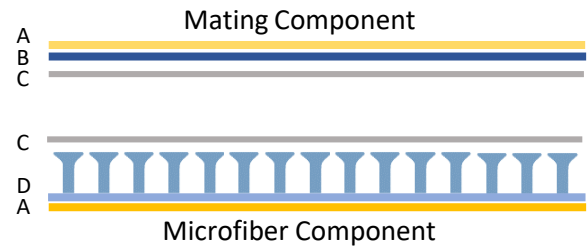
Setex CF

Setex Conformal Fastener (CF) is a unique, conformable bonding system inspired by the microscopic hairs, or *setae*, of a gecko's foot. It is a two-part closure system, analogous to hook and loop fasteners, consisting of a mating surface component and a dry adhesive microfiber component.

Features

- Conformal
- Very low profile
- Silent
- Hermetic
- Customizable adhesive strength
- Available in sheets or die cut pieces
- Easy application onto textiles
- 99% of initial strength regained after decontamination

Product Profile



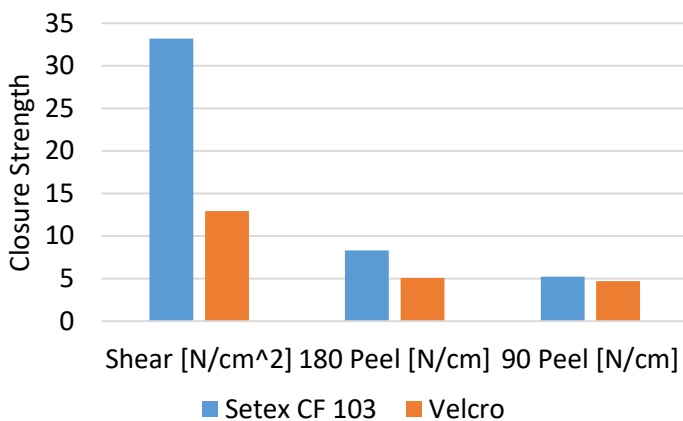
- A: TPU film
- B: Setex CF mating surface
- C: Release liner
- D: Setex CF microfibers

Adhesive Performance

	Shear Strength (N/cm ²)	180° Peel Strength (N/cm)	90° Peel Strength (N/cm)
Strength Range	25-35	3-8	2-5

5lb pre-load, retraction speed of 1mm/s, 1 hour dwell time. Ability to tune down strength further if needed.

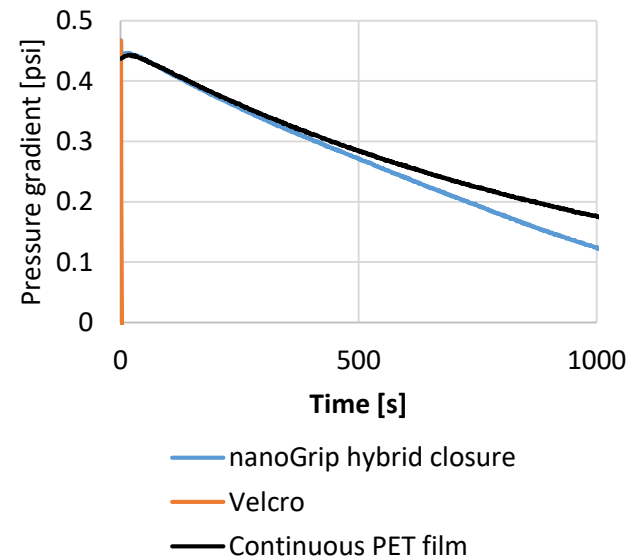
Hook and Loop Comparison



Compared to hook and loop systems:

- 100X flexibility
- 1300X hermetic chemical/ biological resistance
- 1/4X thickness
- 3.5X adhesive strength with the ability to tune down

Permeation Resistance





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Guidelines & Recommendations

Setex CF is created on a thermoplastic polyurethane TPU film. The TPU can be bonded to a wide variety of substrates including textiles, plastics, natural products (paper, leather), and metals and is resistant against home washing and dry cleaning.

Setex CF is supplied with the microfiber tips in contact with a clear, polyester release liner. Do not remove the release liner before bonding the TPU onto a surface. Remove the release liner before adhering the microfibers to the intended surface. Replace the release liner when the microfibers are not in use.

For best performance, adhesive surfaces should be applied to a clean, dry surface. Avoid touching the microfiber surface prior to application. The strength of the Setex is dependent upon the number of microfiber tips in contact with the surface and contact time. Apply firm pressure to achieve optimum surface contact. For best removal, employ a slow and progressive peeling method.

If the microfiber surface becomes contaminated, it can be refreshed by blotting with a low-medium tack pressure sensitive adhesive tape, or lightly cleaned with basic dish soap and water. Allow to dry completely before reapplying the microfiber surface to the bonding surface.