



NCT Inc.

Product Brochure 2025

Dri-Stik,

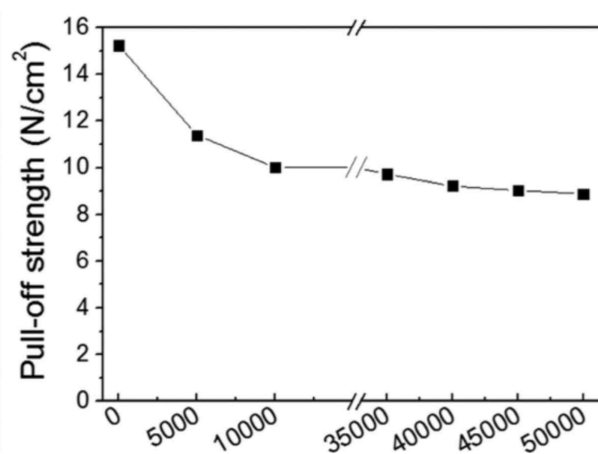
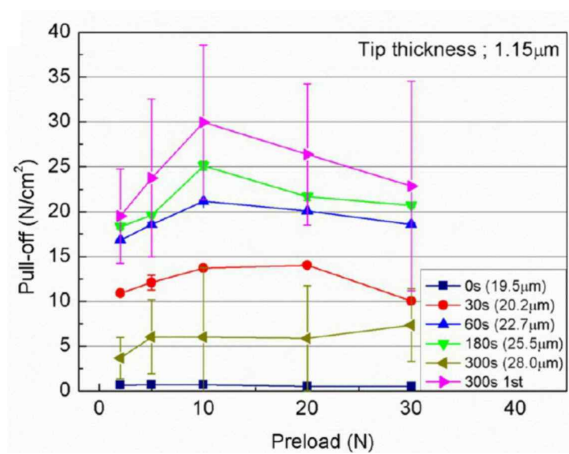
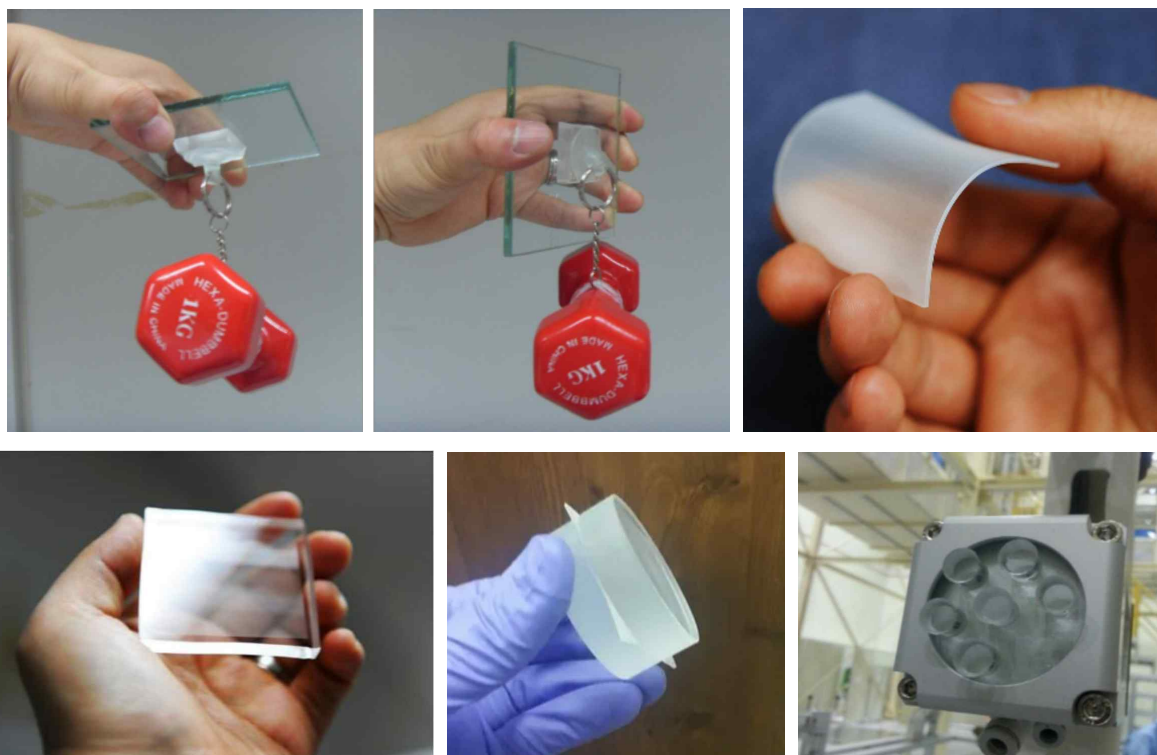
the flagship product of NCT, guarantees reliable adhesion under all conditions.

- Product code : NCT_Dristik
- Description : Bio-inspired dry adhesives
 - No chemical for adhesion
 - Reusable
 - Very low preload for high adhesion
 - Easily cleanable
- Application : End effector, Pick and Place equipment, Glass Handling Module, Wafer Transfer system, Substrate Chuck, Household Applications, etc.
- Specification

	Value
Material	Silicon rubber, FKM, FFKM
Product size*	Max 130 X 130 mm ²
Thickness	250 µm ~
Color	Generally clear, with customizable colors for silicone rubber Black for FKM and FFKM
Pull-off strength at RT	~ 25 N/cm ² for silicon rubber model ~ 20 N/cm ² for FKM and FFKM model
Durability	50% adhesion performance after 50,000 cycles
Operating temperature	150 °C for silicon rubber model 200 °C for FKM model 280 °C for FFKM model
Production Capacity	TBD
Remarks	- Suitable for use on any type of smooth surfaces (glass, metal, painted surface, plastic, etc.) - Detachment is TBD through further consultation

* Oversize product can be produced. However, seamlines can be found.

● Product data



ASP (Anti-Slip Pad),

Precision anti-slip end-effector designed for semiconductor and display process environments

- Product code : NCT_ASP
- Description : Rubbery anti-slip pad for various substrate
 - No chemical for friction
 - Reusable
 - Almost 0 pull-off strength
 - Easily cleanable
 - Super long life
- Application : End effector, Coater/Developer Track for Semiconductor Fabrication, Substrate Chuck, CMP, etc.
- Specification

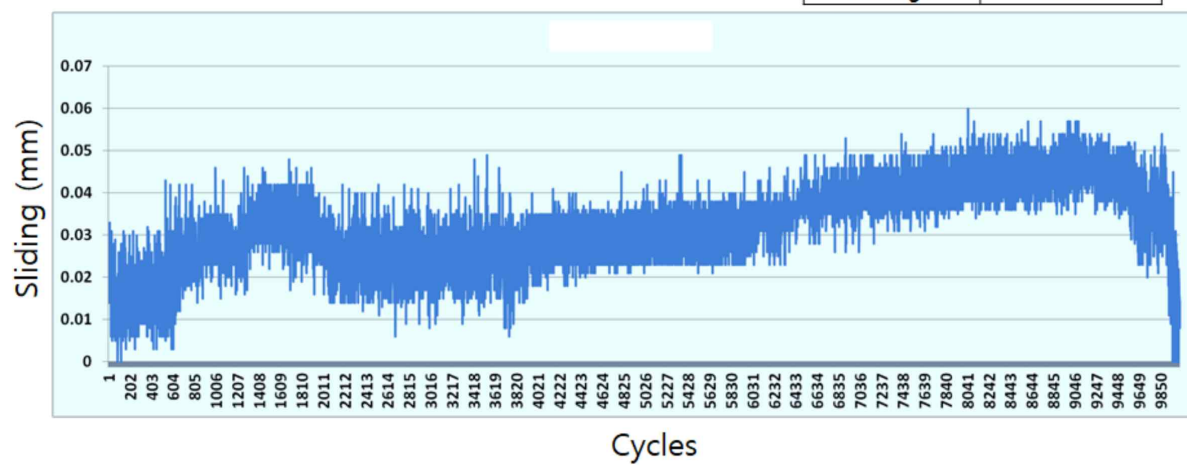
	Value
Material	FKM, FFKM or Silicon Rubber
Product size	Rectangular: ~150 × 150 mm ² Circular: ~8-inch diameter
Thickness	Adjustable (250 μm ~)
Color	Generally clear, with customizable colors for silicone rubber Black for FKM and FFKM
Friction coefficient	Tunable
Durability	> 1,000,000 cycles
Operating temperature	150 °C for silicon rubber model 200 °C for FKM model 280 °C for FFKM model
Production Capacity	TBD
Remarks	- For better performance, micro/nano structures can be added on the surface.

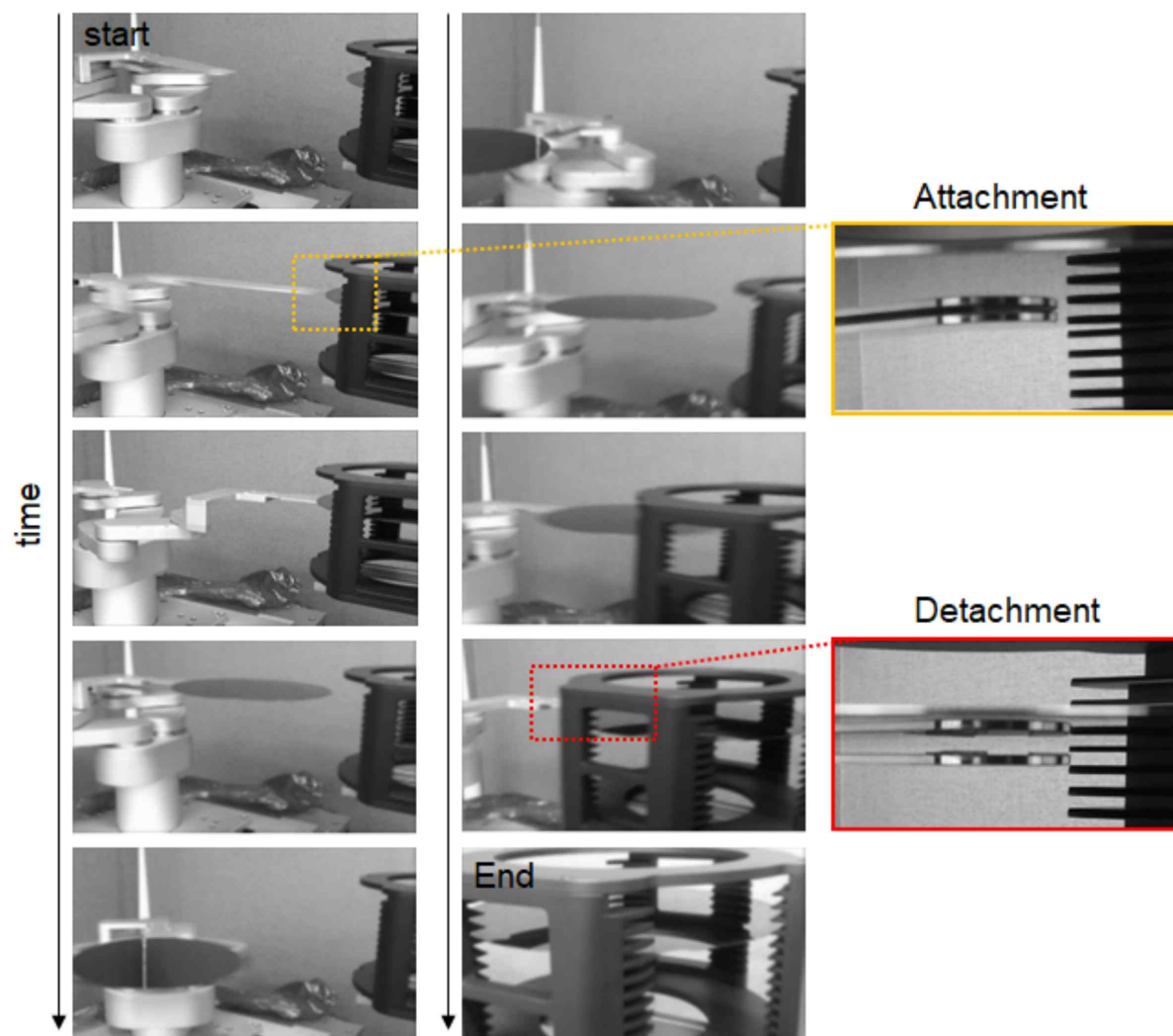
● Product data



- Required spec < 0.3 mm
- Our result < 0.06 mm at full robot speed

	Sliding (mm)
MAX	0.06
MIN	0.00
Average	0.0032





MPP (Micro Patterned Pad),

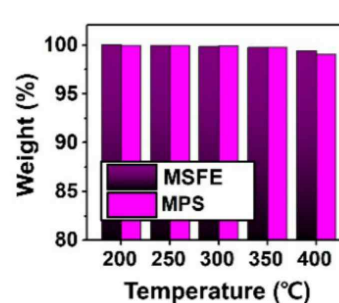
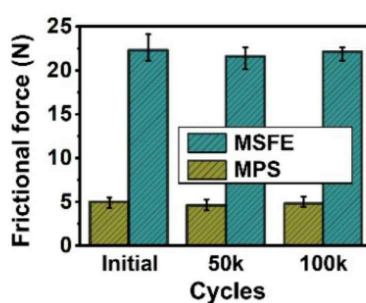
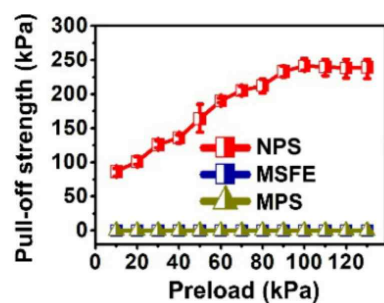
Frictional and adhesive pads featuring multiscale surface patterns, suitable for extreme conditions

- Product code : NCT_MPP
- Description : Micro-patterned Pad
 - Very stable even in ultra-high vacuum
 - Improved contact with the substrate is ensured by macrostructure design
 - Pull-off strength can be controlled
 - Easily cleanable
 - Extended lifespan
- Specification

	Value
Material	FKM or FFKM for contact part SUS or PI bolt for fixation unit
Product size	Rectangular: $\sim 300 \times 300 \text{ mm}^2$ Circular: $\sim 8\text{-inch}$ diameter
Geometry value	Tunable for macro and micro structure
Color	Black
Surface resistance	$1 \times 10^7 \sim 9 \times 10^8 \Omega/\text{sq}$ or tunable
Friction coefficient	1.6 \sim 2.3 or tunable
Pull-off strength	0 \sim 20 N/cm ²
Durability	>1,000,000 cycles
Production Capacity	TBD
Operating temperature	200 °C for FKM model 280 °C for FFKM model

- Product data

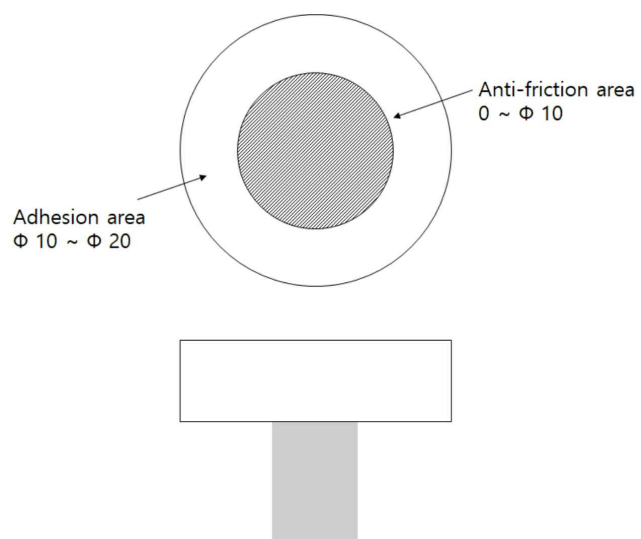
1. Bolt type



2. Customized type



3. Hybrid type



4. Sheet type





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