

# Setex HT

Setex Silicone High Temperature Adhesive (HT) is a microfiber adhesive inspired by the microscopic hairs, or setae, of a gecko's foot with excellent adhesive characteristics to most smooth surfaces, even at high temperatures. The microfibers can be tailored to meet the needs of specific applications.

## Features

- Dry/glue-free / non-tacky
- Residue-free removal
- Reusable
- Customizable adhesive strength
- Available in sheets or die cut pieces
- Application temperature range of -20 °C to 300 °C

## Product Profile



A: Release liner

B: Setex silicone HT microfibers

C: Kapton film

## Adhesive Performance

|                              | @22 °C | @275 °C |
|------------------------------|--------|---------|
| Shear*, N/cm <sup>2</sup>    | 2.7    | 6.0     |
| Adhesion*, N/cm <sup>2</sup> | 4.0    | 9.0     |

\* On glass substrate

## Guidelines and Recommendations

- Setex HT is supplied with fiber tips in contact with a release film. This film should be removed before evaluation of the samples and replaced when samples are not in use.
- For best performance, adhesive samples should be applied to clean, dry surface, free of any oil or debris.
- The strength of the dry adhesive is dependent on the number of microfiber tips in contact with the surface and the contact time. We recommend applying with pressure to achieve good surface contact.
- For optimal adhesive strength avoid touching the microfiber surface. We recommend handling the microfiber samples using gloves to avoid contamination.
- In the event that a sample becomes contaminated, it can be refreshed by blotting with a conventional pressure sensitive adhesive.

## How to Clean Contaminated Microfibers

- If the microfiber surface becomes contaminated, it can be cleaned.
- If contamination is mild (e.g., small amount of dust or debris), it can be refreshed by blotting with a low-medium tack pressure sensitive adhesive, such as Scotch® tape. The contaminant will stick to the tacky adhesive and lift off the microfiber surface.
- If the contamination consists of heavier amounts of debris, or if the microfiber surface is contaminated by skin oils, it can be refreshed by rinsing the surface with isopropyl alcohol (Typically 70%) and wiping with a lint-free cloth. Allow to dry completely.
- For heaviest contaminants, the surface can be lightly cleaned with basic dish soap and water.
- Allow the surface to dry completely before reapplying the microfiber surface to the mating surface.