

## Testing Terms for Adhesives

### TACK

Tack is a term associated with quick stick. The test is done by using a probe that is removed very quickly after touching a surface. The results are an indication of how quickly the adhesion will increase. A variety of probes are used of varying shapes and materials depending on the application area.

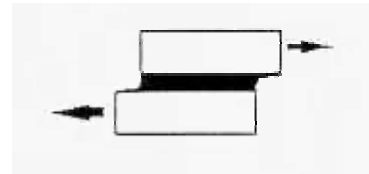
### PEEL ADHESION

Peel adhesion tests show the relative adhesion to a surface. The adhesive is supported during the test, usually by a 2-mil thick tape, to prevent the adhesive from stretching. As the backing material is pulled the adhesive is stressed, usually at 90° or at 180° from the panel. The bonding time is usually longer than a Tack test; up to several days. The same adhesive will give different results depending on the thickness of the material (leverage effects). Results are surface dependant and are heavily influenced by the angle of the test being done.



### SHEAR ADHESION

Shear adhesion tests indicate that ability of the adhesive to keep a weight from sliding on a surface and is heavily related to holding power. In a shear test the adhesive is stressed when two plates are attempting to slide by each other.



### TENSILE ADHESION

Tensile adhesion shows that ability of a tape to resist an object being pulled off of a surface. Unlike the shear adhesion where the planes are sliding by each other, the panels are pulled directly apart in tensile testing.

