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## **MASTER STOP® Technical Data Sheet – Acrylic Adhesive**

### **Description**

A permanent type, solvent based, acrylic emulsion pressure sensitive adhesive.

### **Thickness (PSTC-33)**

2 mils +/- .2 mils

### **Adhesion Properties (PSTC-101)**

180° Peel Adhesion (immediate) lbs/in 2.5 (+/-0.7)

180° Peel Adhesion (24Hrs dwell) lbs/in > 6.0

### **Cohesive Properties (PSTC-107)**

Shear Adhesion (1/2" x 1/2", 500 gms) hrs > 15 hours

Shear Adhesion (1/2" x 1/2", 1000 gms) hrs <1 hours

### **Tack Properties (PSTC-6)**

Rolling Ball, inches < 3.5

\*\* Test results are based on the use of non-grit coated material

# Technical Data Procedures

## Adhesive

### **Thickness**

Measured in the adhesive coating process using a caliper and/or snap gauge and 1mil polyester strips. (PSTC-33)

### **Adhesion Properties**

180° Peel Adhesion (immediate) lbs/in - Adhesive coated 1 mil polyester retain is cut into a 1" x 12" strip. 5" of adhesive is exposed and adhered to a clean 2" x 6" x 1/16" thick SS test panel using a 4 1/2# rubber covered roller. The panel is immediately secured to an Imada DPS-110 horizontal peel test machine and the results are recorded off the digital display. (PSTC – 101)

180° Peel Adhesion (24Hrs dwell) lbs/in – Same procedure as Immediate above except sample is tested 24 hours after being applied to test panel.

### **Cohesive Properties**

Shear Adhesion (1/2" x 1/2", 500 gms) hrs - Adhesive coated 1 mil polyester retain is cut into a 1/2' x 6" strip. 1/2" of adhesive is exposed and adhered to a clean 1/16" thick SS test panel using a 4 1/2# rubber roller. Test panel is secured in a vertical plane, a 500g. weight is hung from the bottom of the sample and time is monitored with a stop watch until sample completely separates from test panel. (PSTC-107)

Shear Adhesion (1/2" x 1/2", 1000 gms) hrs - Same procedure as 500gms. above except sample is tested with a 1000g. weight applied to sample.

### **Tack Properties**

Test performed on adhesive coated 1 mil polyester retain using a Chemsultants International Rolling Ball Test machine (PSTC-6)

\*\* All tests are based on the use of non-grit coated material