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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 > 10 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