

SecureSeal™ THERMAL ADHESIVE FILMS AND FOIL

Adhesive films and foils are now increasing in popularity for covering a wide range of plates in bioanalytical, genomic and pharmaceutical research.

Simport, with almost 30 years of experience creating innovative laboratory plasticware and accessories, is offering a carefully selected range of sealing films and foil with the following features:

- ♦ Low contamination of well contents by the tape adhesive
- ♦ Prevention of evaporation from the individual wells
- ♦ Clean tape removal for access to the well contents
- ♦ Good optical properties for monitoring well contents through the film
- ♦ Temperature resistance over wide ranges to include compound storage and PCR

The improved **Simport SecureSeal™** films and foil are higher quality products manufactured through unequalled expertise and quality control.



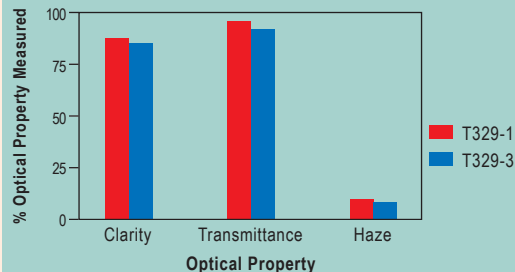
The **Simport SecureSeal™** Thermal adhesive films prevent vapor loss and are thermostable and functional from -70 °C to 100 °C.

Properties of Simport SecureSeal™ Sealing Films and Foil

PCR Compatibility

- ♦ Solvent loss after typical cycle < 5% with no dry wells.
 - The following cycle repeated 35 times:
 - 94 °C for 1 min; 55 °C for 1 min; 72 °C for 45 sec.
- ♦ Very low autofluorescence for T329-1 polyolefin tape.
- ♦ Adhesives do not interfere with cycle reactions.

Optical Properties



Solvent Extractables

T329-1 Polyolefin / T329-3 Polyester / T329-5 Aluminum

One hour direct contact between adhesive and solvent followed by overnight incubation at room temperature.

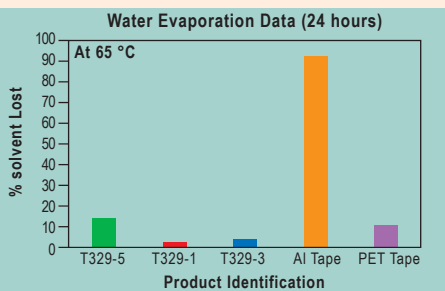
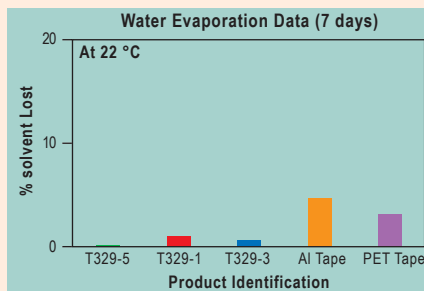
Solvents: DMSO and ethanol (80) / water (20).

Blanks, controls, and extracts were analyzed by GC/MS.

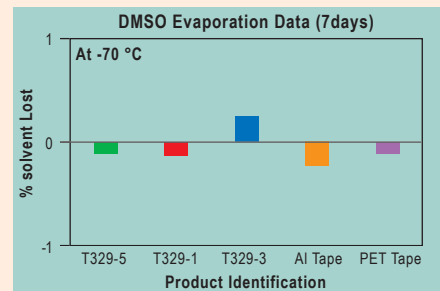
Results:

DMSO: None detected above background.
 Ethanol / water: Hydrocarbon acrylate esters 5 µg /ml.
 Antioxidant 630 µg /ml.

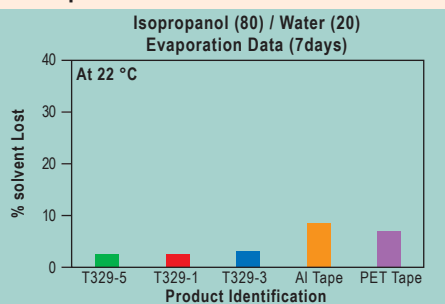
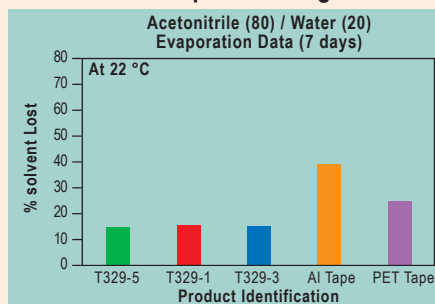
Prevention of Water Evaporation



Analysis of DMSO Mass Change



Prevention of Aqueous / Organic Solvent Evaporation



Adhesion to Polypropylene Plates

