

## Autosampler Testing

### Purpose:

Plate cover needed that would not plug up the injector syringe and is pierceable without tearing. Other available plate sealing films were tested along with MicronPlus 2214-U and 2214-384 pattern adhesive seal films. This testing was conducted by an autosampler injector manufacturer.

### Poor Performance of other sealing films:

Parafilm: very quickly clogged the injector

Adhesive sealing foil: adhesive plugged the stator

Adhesive sealing film: -bits of plastic plugged the inject port  
-adhesive quickly plugged the stator  
-failed to pierce the film, needle was bent

Injector port  
clogging issues  
with Foil and  
other adhesive  
plate seals



Tip shows foil matter accumulation



Tip filled with foil and adhesive  
(not cleanable)

### Performance of MicronPlus 2 mil PTFE Seal Films: 3,800 samples were tested with 2214-U, 2214-384 films

- Passed all the requirements
- No clogging of injectors
- No particulate generated in either of two checkmate injector ports
- Pierced easily by **Only .5 lb** penetration force with CTC X-Type & Checkmate Syringe

