

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2006  
DateRun: 09/19/2006  
Experimenters: Jason Marshall  
ClientType: Cleaner Manufacturer  
ProjectNumber: Project #1  
Substrates: Plastic  
PartType: Part  
Contaminants:  
Cleaning Methods: Immersion/Soak  
Analytical Methods: Gravimetric

Purpose: To evaluate compatibility of glass cleaner on window film

Experimental Procedure: The supplied glass cleaner, water and white vinegar were put into 250 ml beakers. A piece of Solar Gard window film was weighed prior to immersion into each solution. One piece of the film was immersed in each solution and allowed to soak for 60 minutes. After the hour, the film was removed, rinsed in tap water and dried using compressed air, followed by wiping with a paper towel. Once dry, the film was weighed again to determine if any change in weight occurred during the immersion. The film pieces were then re-immersed into the liquids and allowed to soak overnight. After 24 hours of immersion, the film was again rinsed, dried and weighed.

Results: The glass cleaner, water and white vinegar all had the same effect on the immersed film. The weight of the film increased only slightly after 60 minutes. The same was true for the 24 hour soak. The table below lists the initial, final and change in weight for the three solutions.

60 Minute Immersion			
Solution	Initial Wt	Final Wt	Wt Change
DFC Glass Cleaner	0.6999	0.7013	0.0014
Water	0.7056	0.7068	0.0012
White vinegar	0.6966	0.6984	0.0018
24 Hour Immersion			
Solution	Initial Wt	Final Wt	Wt Change
DFC Glass Cleaner	0.6999	0.7028	0.0029
Water	0.7056	0.7082	0.0026
White vinegar	0.6966	0.6994	0.0028

Summary:

Conclusion: No difference in the three solutions was observed at 60 minutes and 24 hours of immersion of window film.