

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998
 DateRun: 03/23/1998
 Experimenters: Jason Marshall, Prashant Trivedi
 ClientType: Cabinet Manufacturer
 ProjectNumber: Project #1
 Substrates: Plastic
 PartType: Part
 Contaminants: Adhesive
 Cleaning Methods: Manual Wipe
 Analytical Methods: Visual
 Purpose: Additional cleaners to remove adhesive

Experimental Procedure: The purpose of this experiment was to find additional cleaners that could be used to remove the adhesive from the plastic laminate. Several chemistries were selected from the laboratory's database of in-house cleaners. The cleaners were selected on one of two categories: substrate compatibility and contaminant removal. A paper towel was saturated with a cleaner at full strength. The towel was applied to the coupon in a circular motion with minimal pressure for about a minute. The effectiveness of the chemist was determined visually.
 SUBSTRATE MATERIAL: Plastic coupons (2" x 4")
 CONTAMINANTS: 3M contact cement--30NF

Results: Of the fourteen chemistries tested, only four showed signs of removing the adhesive from the surface. These chemistries were: Fisan Versaclean, Safety Prep, D-Greeze 500, and Bio-T MAX. Since only one of the four cleaners came from the substrate compatibility category, an additional test will be performed to determine if there will be any problems with the cleaners and the plastic substrate.

Summary:

Substrates:	Plastic				
Contaminants:	Adhesive				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Abatement Technologies	Bio Might 100 Cleaner - Degreaser	100		<input type="checkbox"/>	
AG Environmental Products	Soy Gold 1000	100		<input type="checkbox"/>	
Alconox Inc	Detergent 8	100		<input type="checkbox"/>	
AW Chesterton	217 Pressure wash	100		<input type="checkbox"/>	
Calgon Corporation	AK 6215	100		<input type="checkbox"/>	
Bio Chem Systems	Bio T Max	100		<input checked="" type="checkbox"/>	
Inland Technologies Inc	Safety Prep	100		<input checked="" type="checkbox"/>	
International Products Corporation	Micro (no longer available)	100		<input type="checkbox"/>	
Nalge Company	Nalgene L 900	100		<input type="checkbox"/>	
Oakite Products	Fisan Versaclean	100		<input checked="" type="checkbox"/>	
Oakite Products	Inproclean 3800	100		<input type="checkbox"/>	
Oakite Products	Inproclean 4000 T	100		<input type="checkbox"/>	
Transene Company, Inc.	D Greeze 500 LO	100		<input checked="" type="checkbox"/>	
Magnaflux	Daraclean 232	100		<input type="checkbox"/>	

Conclusion: Four cleaners were shown to be effective in removing the adhesive from the plastic surface. Three of the chemistries will undergo a compatibility study. All four will then be tested quantitatively for removal of the adhesive.