CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1997

DateRun: 08/07/1997

Experimenters: Jason Marshall, Prashant Trivedi

ClientType: Cabinet Manufacturer

ProjectNumber: Project #1

Substrates: Plastic

PartType: Part

Contaminants: Adhesive

Cleaning Methods: Manual Wipe

Analytical Methods: Tactile, Visual

Purpose: To clean supplied parts with two cleaners

Experimental Procedure: Three samples were selected at random from the supplied parts. Two cleaners were chosen using the lab's database. The Brulin cleaner was used full strength and at the manufacturer's recommended dilution (10%). Loctite was used full strength.

The cleaner was applied to the sample using a swab. After the application, the cleaner was wiped off using a paper towel. The amount of pressure used to clean the contaminant off of the sample was noted. The two Brulin solutions were applied to opposite ends of one sample, Loctite was used on the second and the final coupon was cleaned using just the paper towel.

SUBSTRATE MATERIAL: Plastic
CONTAMINANTS: 3M contact cement--30NF
CONTAMINATING PROCESS USED: Samples were received contaminated from client

Results: The Loctite cleaner was the quickest and easiest of the selected cleaning solutions. The Brulin 100% solution was the next best, but it required more time and effort than the Loctite solution. The Brulin 10% solution required a lot of effort to produce any cleaning; the 10% solution needed almost as much effort as using no cleaner.

Cleaning solution	Brulin 100%	Brulin 10%	Loctite 100%	No cleaner
Observations	good cleaning	acceptable cleaning	excellent cleaning	fair cleaning
	some pressure required	a lot of pressure required	little pressure required	a lot of pressure required

Summary:

Substrates:	Plastic				
Contaminants:	Adhesive				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Brulin Corporation	Compliance	10	0.00	☐	
Brulin Corporation	Compliance	100	0.00	☑	
Loctite Corporation	7360	100	0.00	☑	

Conclusion: As of the preliminary trial, the Loctite solution was the best of the selected cleaning chemistries. The Brulin solution showed adequate cleaning when used at full strength.
The next set of testing will include these two solutions as well as some other cleaners. The stock laminate will be cut into coupons and contaminated with the supplied cement. The cleaning procedure will be the same. Results will be measured through visual, tactile and gravimetric methods.