CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	1994
DateRun:	11/02/1994
Experimenters:	Donald Garlotta
ClientType:	Plastic Manufacturer
ProjectNumber:	Project #1
Substrates:	Plastic
PartType:	Coupon
Contaminants:	Mold Releases
Cleaning Methods:	Immersion/Soak
Analytical Methods:	Visual
Purpose:	Clean mold release agents from acrylic polymer
Experimental Procedure:	The coupons were received from the client. Two contaminants were applied to the coupons with a foam swab. One agent, Crystal 4000, was applied to the black coupon and the other contaminant, Chem Trend CT 2004, was applied to the beige coupon. Cleaning took place in an agitated wash with a 10% solution in a beaker for fifteen minutes at 140 F. Then the coupons were rinsed in tap water for ten seconds at 138 F. A two-stage drying was used. First the parts were passed under an air knife for two minutes at ambient conditions. Then the coupons were put in an oven for 45 minutes at 181 F. After the parts cooled in a desiccator to room temperature, they were inspected visually for cleanliness. SUBSTRATE MATERIAL: Acrylate polymer coupons CONTAMINANTS: Silicone mold release agents CONTAMINATING PROCESS USED: Applied contaminants with foam brush swab.
Results:	A good deal of mold release agent was visible on the coupons after the cleaning trial. It appeared that the cleaner and or the method selected did not work well.

Summary:

Substrates:	Plastic				
Contaminants:	Mold Releases				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
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Conclusion: Due to insufficient cleaning, further testing must be performed to find a cleaning process.