

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1994
 DateRun: 11/08/1994
 Experimenters: Donald Garlotta
 ClientType: Plastic Manufacturer
 ProjectNumber: Project #1
 Substrates: Plastic
 PartType: Coupon
 Contaminants: Mold Releases
 Cleaning Methods: Immersion/Soak
 Analytical Methods: Visual

Purpose: Second attempt to remove mold release agents

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% concentration in a beaker for fifteen minutes at 139 F. Then the coupons were rinsed in tap water for ten seconds at 146 F. A two-stage drying was used. First the parts were passed under an air knife for two minutes at ambient conditions. 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.