

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 11/07/2008

Experimenters: Jason Marshall

ClientType: Wire & Cable Mfr

ProjectNumber: Project #2

Substrates: Liquid

PartType: Part

Contaminants: Plastic

Cleaning Methods: Immersion/Soak

Analytical Methods: Tactile

Purpose: To evaluate products from previous trial at higher temperatures.

Experimental Procedure: Six products were selected from the previous testing results. Two products were diluted to recommended concentrations using DI water. The remaining four products were used at full strength. The supplied PVC tubing was cut into 2-3 inch pieces and immersed into each solution at 130 F. Observations were made at 10 minutes, 30 minutes, 50 minutes 60 minutes, 120 minutes and 240 minutes.

Results: The elevated temperature helped improve the deformation of the PVC tubing for four of the six products. Observations and rankings are listed in the table below.

Cleaner	Time	Observation
Spartan	10 min	No change
	30 min	Same
	50 min	Not tested
	60 min	Not tested
	120 min	Not tested
	240 min	Not tested
SC 1000	10 min	Soft-pliable
	30 min	4th best
	50 min	5th best
	60 min	5th best
	120 min	5th best
	240 min	5th best
SC Soyester	10 min	Very soft and pliable
	30 min	2nd best
	50 min	4th best
	60 min	4th best
	120 min	4th best
	240 min	4th best
Bean-e-doo	10 min	Very soft and pliable

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	30 min	5th best
	50 min	3rd best
	60 min	3rd best
	120 min	3rd best
	240 min	3rd best
DBE 6	10 min	Extremely soft, slippery
	30 min	Stretchable - best
	50 min	best
	60 min	best - some shedding taking place - white particles in solution
	120 min	best
	240 min	best
Smart Solve 605	10 min	Very soft and pliable
	30 min	3rd best
	50 min	2nd best
	60 min	2nd best
	120 min	2nd best
	240 min	2nd best

Summary:

<b>Substrates:</b>		Liquid				
<b>Contaminants:</b>		Plastic				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
Spartan Chemical Company	Green Solutions Floor Stripper	33		<input type="checkbox"/>		
Gemtek Products	SC 1000 Aqueous Cleaner Concentrate	20		<input type="checkbox"/>		
Gemtek Products	SC Soyester	100		<input checked="" type="checkbox"/>		
Franmar Chemical	Bean-e-doo (Parts Washer Solvent)	100		<input checked="" type="checkbox"/>		
Invista S.a.r.l	Flexisolv DBE 6 ester	100		<input checked="" type="checkbox"/>		
United Laboratories International	Smart Solve 605	100		<input checked="" type="checkbox"/>		

Conclusion:

Two products were able to make the PVC tubing soft and stretchable. The DBE 6 product was by far the most promising. Follow up testing could include additional dibasic ester products at heat temperatures.