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A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

PC/ABS PRE-ETCH SYSTEM *for plating on plastic substrates*

Accu-Labs PC-ABS Two-Part Pre-Etch (422 & LCS-50) is a solvent based solution that is used in the preparation of PC/ABS blends and other high performance substrates by conditioning the surface of the substrate for subsequent etching, pre-treatment and electroless plating on plastics or EMI/RFI shielding applications.

MAKE-UP

- D. I. Water 60% by volume
- Pre-Etch Part A (422) 15% by volume **always add Part A before Part B**
- Pre-Etch Part B (LCS-50) 15% by volume **add slowly with agitation**
- D. I. Water Balance

OPERATING GUIDELINES

Concentration: Maintain Parts A & B at 15% by volume
Temperature: 90 - 110°F (variable with application)
Dwell Time: 30 seconds – 10 minutes (variable with application)
Agitation: Mild mechanical or solution
Equipment: Stainless steel tanks and pumps
Ventilation: Recommended

SOLUTION MAINTENANCE

ANALYSIS FOR PART A

- Put 50 mls of the working bath into a 100 ml graduated cylinder with stopper
- Add 10 mls of Pre-Etch Part B (LCS-50)
- Place stopper securely in graduate and shake thoroughly
- Allow solution in cylinder to settle
- Record the number of mls in the upper layer of the cylinder
- Mls in upper layer x 2.5 = % by volume of Pre-Etch Part A (422)

ANALYSIS FOR PART B

- Pipette 10 mls of the working bath into a 250 ml Erlenmeyer flask
- Add 50 mls D. I. water
- Add 3 drops of phenolphthalein indicator solution; *perform next step immediately*
- Titrate with 0.5N HCl to a clear end point & record number of mls
- $\text{Mls of HCl} \times \text{N of HCl} / 10 = \text{N of Pre-Etch Part B}$ Maintain at 2.4 Normal
- A 1% by volume add of Pre-Etch Part B raises normality by 0.16 N

SAFETY

Use eye protection and personal protective gear when handling or working with the aforementioned chemicals; read MSDS prior to use.

DISCLAIMER

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