

UV PROCESS SUPPLY, INC.

CON-TROL-CURE™ DYNE PENS

PART # N001-001

INSTRUCTIONS

For maximum accuracy when testing, an ink from the middle of the range should first be applied. (e.g. 40 dynes/cm) If the ink wets the surface within two seconds without forming globules, the treatment level of the film is either higher than, or exactly that of the liquid.

A second test using the ink of the next higher value, in this case 42 dynes/cm., should then be performed and the process repeated using inks of increased values until the ink forms globules within the first two seconds of application.

However, should the first application of ink have formed globules within two seconds, then the same ink test should be repeated, but using the next lower value.

In this way, one is able to pinpoint the treatment level measurement through two tests. For example, it can be established that the level of treatment of the tested film is between the levels of two inks – 36 to 38 dynes/cm. With a certain amount of practice it can be accurately estimated whether the level lies closer to 36 or 38 dynes/cm.

To make possible the adherence of polymer plastics, the surface must be treated so that the surface tension rises to a defined point. Untreated PP and PE have a surface tension of about 30 dynes/cm. Well treated PP and PE should be at 38-40. Too low of a surface tension value, approximately 35 dynes/cm., almost always result in poor adhesion.

IMPORTANT

1. Close the tube tightly after each application.
2. Gloves and safety glasses should be worn.
3. Do not eat or drink when working with the inks.
4. Ignition sources should be kept at a safe distance.
5. Waste solution should be incinerated properly.
6. If spilled or leaked, use liquid binding materials. The solutions should not enter the sewage system.
7. In case of fire, use CO₂ and waster spray.
8. In case of contact with skin or eyes, flush area with water and consult a doctor for eye contact.
9. Avoid the inhalation of fumes.
10. Do not take internally.
11. These inks are hygroscopic and their characteristics are changed by water absorption from the air, so their life expectancy is limited.

THE TEST PENS ARE TUBE COLOR-CODED FOR EASY IDENTIFICATION OF A SPECIFIC DYNE LEVEL

30 dynes/cm - white
32 dynes/cm - orange
34 dynes/cm - light gray
36 dynes/cm - green
38 dynes/cm - red
40 dynes/cm - light blue
42 dynes/cm - dark blue
44 dynes/cm - black

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