

UV PROCESS SUPPLY, INC.

CON-TROL-CURE© DYNE PENS

PART # N001-010 (Levels 36-48)

INSTRUCTION FOR USE

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.

This test is a suitable test carried out by the machine operator and gives a trained person an easy and effective means of determining the treatment levels achieved on film samples.

Since the inks are made up of liquids with various surface tensions and are also hydroscopic, it is imperative that the caps be firmly replaced immediately after use.

The surface tension is a definite criteria for the adhesion of ink onto PE and PP. There are, however, other factors such as migration of slip additives that influence the adhesion of inks quite negatively, that in turn do not necessarily register on surface tension testing. Consequently, even though good surface tension results were found, the ink adhesion can result negatively. It is also possible that polymer plastics with the same surface tension can give varying degrees of print adhesion.

In most cases, however, one can disregard these exceptions and get the best possible results of ink adhesion with the surface tension of between 38 and 41 dynes/cm. Too low of a surface tension value, approximately 35 dynes/cm., almost always result in poor adhesion.

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