



PRODUCT DATA SHEET
UV CURABLE PRESSURE-SENSITIVE ADHESIVE
UVPS100E

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Updated 11-16-06

DESCRIPTION:

UVPS100E is a specialty UV-curable pressure-sensitive adhesive intended for application by roll or gravure coaters. It may be applied to either substrate. After application the adhesive is cured via UV exposure. The secondary web is then nipped to the primary web. In some cases it may also be used as a laminating adhesive, especially for film-to-paper combinations. Full bond strength is achieved immediately off-press. This product provides excellent clarity both in the wet state and as a cured adhesive film. It is especially suited for substrates such as PET, OPP and paper and for use on high-speed webs.

PRODUCT FEATURES:

- Instant Cure
- Strong Bonds
- Good Clarity
- High Tack

TYPICAL TECHNICAL DATA:	UVPS100E
Viscosity (25 deg. C)	450 cps
Weight per Gallon	9.5 lbs/gal
% Solids	100%
24 Hr. Peel (peak 180°, on steel), gli	2000i
Loop tack, lbs/in	4.25
SAFT (500 g. load), °C	75

ADHESIVE APPLICATION:

UVPS100E should be used on machines with precise tension controls in order to optimize appearance. Its instant cure permits immediate processing of the structures. A coating thickness of about 0.5 to 2.0 mils is recommended for most applications depending upon substrate and graphic design. Cylinders with 45 to 200 lines and the appropriate cell geometry can be used to apply the adhesive at the desired coating weight.

CURING:

Suggested curing dosage is 30-150 mJ/cm², with 100 mJ being recommended, using an "H"-bulb at 300 watts. This product is also suitable for use with "D" or "V" bulbs. These guidelines may vary with coat weight and line speed. The converter should perform testing in order to determine optimum cure conditions.

VOC:

This product has zero VOC.

END USE CONSIDERATIONS:

This adhesive was developed for industrial (non-food) use. For food packaging applications, the actual film structure to be used in the package must be tested for "extractables" to determine whether it complies with FDA guidelines for food packaging. This adhesive would be suitable for food packaging applications if a barrier substrate, such as aluminum foil, were present.

STORAGE, HANDLING AND CLEAN-UP

Appropriate care should be taken in the handling of this product. Avoid all contact with skin and eyes, and avoid inhalation of vapors. Wash skin with warm water and liquid detergent. Clean up equipment before and after use with IPA. Do not allow this product to contact copper or its alloys. Store this product in sealed, dark containers below 100 deg. F. Do not store it under an inert atmosphere. Unopened containers of UVPS100E have a shelf life of about 6 months.



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PRECAUTION:

Before we introduce a new adhesive to the marketplace, the adhesive is comprehensively tested in our own laboratories and on production equipment under our supervision. However, because of the hundreds of possible substrate combinations and the different printing ink systems, we cannot possibly forecast the performance of our adhesives under all circumstances. Therefore, we strongly urge converters to test our adhesives on a small scale and to establish that laminates made with our products are suitable for the end uses for which they are intended, prior to commencing large-scale commercial production.

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