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Novacap's New Universal Cover Tape

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1. Product Description

The Novacap Universal Cover Tape is a transparent, conductive, film tape with a synthetic, room temperature, pressure sensitive adhesive zone. It is specifically designed to seal electrical and electronic components into all embossed carrier tape materials, including paper.

The Universal Cover Tape addresses and eliminates the problem of tearing cover tape seen throughout the electronics industry. The sealing process creates a very smooth seal which significantly improves the peel force consistency resulting in smooth and jerk free removal of the cover tape.

2. Cover Tape Peel Initiation Procedure

The Novacap universal cover tape is specifically designed to initiate the medial (middle) portion from the sealed carrier, instead of conventional methods where the entire width is removed. When properly aligned:

- 1) Take a pair of scissors and cut the leader (leading edge of package) at an angle of (45°) degrees.

2) Using tweezers, position in center of pocket at leader, lift middle portion and peel back at 180° angle. See Figure 1.

3) Cover tape will follow path until it reaches the “design feature” where only the middle portion will initiate and follow scored section (notice feature where peel initiates ~ 1 inch increments). See Figure 2.

4) Fold the exposed adhesive section over (creating a tab).
Note: This step prevents adhesive transfer to feeders.

5) Once the “tab” is made, peel initiation is complete.

6) Users may note that after removal from the carrier the cover tape and carrier retain some remnants of the adhesive sealant (stickiness) and should assure these packing materials are routed away from the equipment appropriately.

Caution: Peel initiation is achieved in only one direction. Attempting to initiate the peel from the opposite direction will not work. The entire width will be removed, exposing adhesive, similar to conventional methods. Thus, the middle portion will not initiate.



Figure 1. The photo represents peel initiation of the universal cover tape.

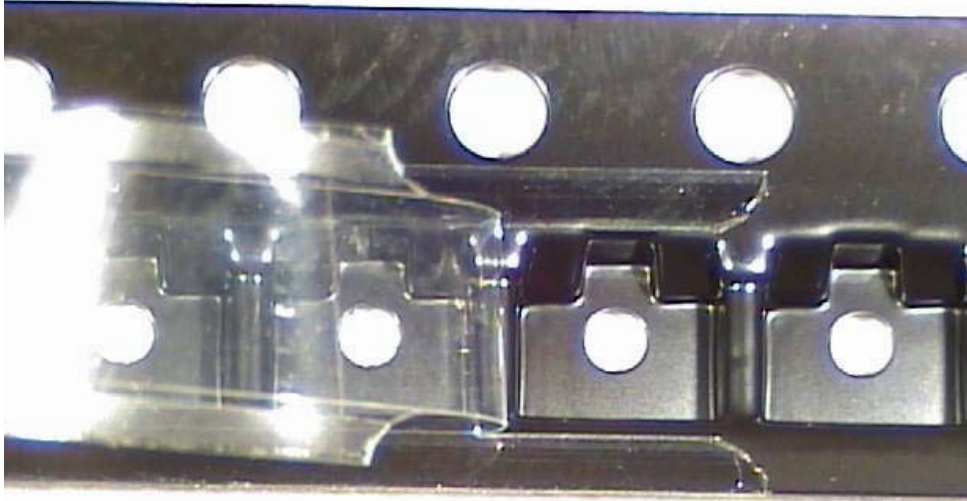


Figure 2. The photo demonstrates the universal carrier tape during removal of the middle section highlighting adhesive portion adhered to carrier.

3. Features

- 1) The adhesive section stays with carrier.
- 2) The creation of a ‘tab’ eliminates adhesive transfer to equipment concerns.
- 3) The initiation of a “middle” portion provides a means for smooth consistent “removal force”.
- 4) “Removal” / “peel” force plots are below for traditional and for new universal cover tapes. See Figures 3 and 4. The “peel” consistency is much better with the universal cover tape.

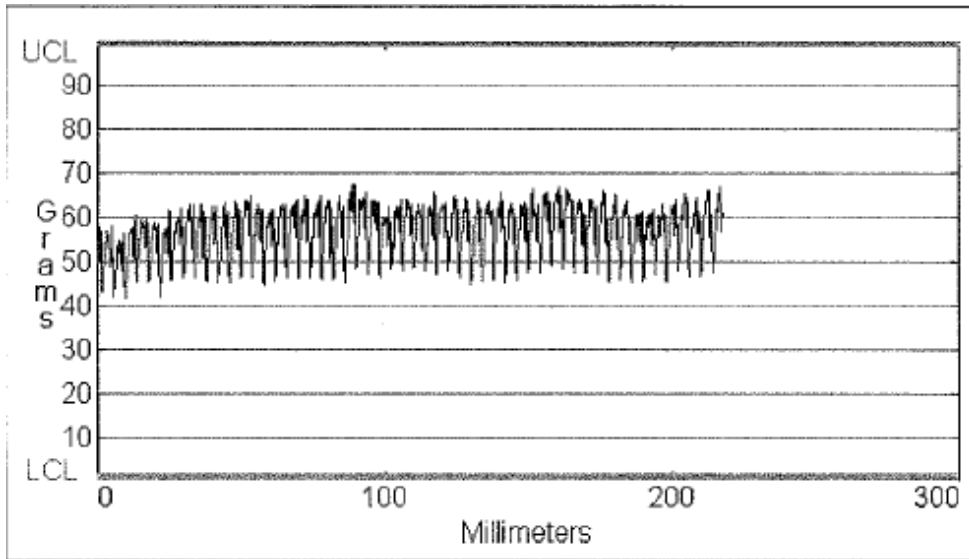


Figure 3. The “peel” force data for the traditional cover tape are above.

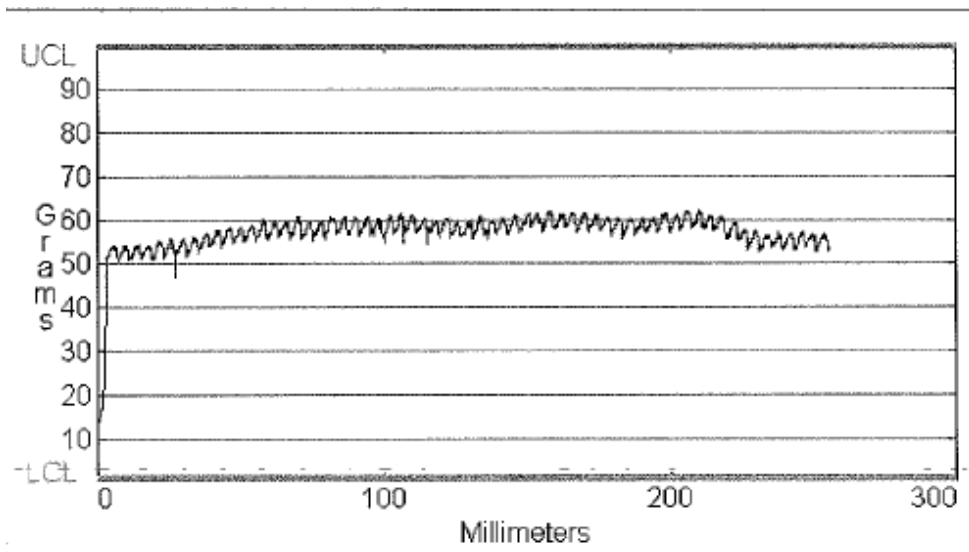


Figure 4. The “peel” force data for Novacap’s new universal cover tape are above.

4. Technical Support

For technical support, please contact Novacap at:

Phone: (661) 295-5920

Email: info@novacap.com