



Carrier Tape for Your Bare Die Applications



3M™ 3000BD Precision Carrier Tape is specifically designed for transporting bare die, bumped die, flip chip, chip-scale packaging and BGA components. It provides the following benefits:

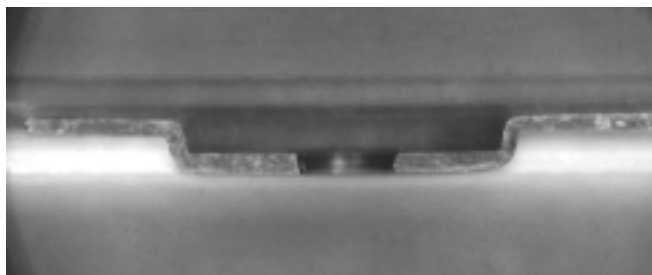
- **Component Protection** - 3M's 3000 BD Carrier Tape is designed with a +/- .002" pocket tolerance as opposed to the +/- .004" industry standard - the tight tolerance of the carrier tape as well as the specially designed corner protect features reduce the rotation of the component in the pocket as well as provide better protection to the component.
- **Flat Bottom Pocket for Packaging Full Matrix Array Components** - Most carrier tapes have features such as pedestals that raise the solder bumps off the bottom of the pocket because the bottom is not uniform. 3M's unique precision processing provides a flat bottom pocket to allow components to be packaged bump-side down. Bump-side down packaging thus allows the presentation of the component to your customers equipment without further handling.
- **Low Level of Cation and Anion** - The organic and inorganic contaminants in the packaging can create component failure. Since 3M uses a superior engineering grade polycarbonate material, 3M's 3000BD carrier tape has less than 5 ppm of these corrosive ions (Cl⁻, NO₃⁻, SO₄⁻, K⁺, Ca⁺⁺).
- **Low Particle Count** - 3000BD carrier tape is cleaned and therefore has 60-70% less particles than standard carrier tapes. As the solder bump diameter and pitch continue to decrease in size, particulates will continue to be a concern to the industry.
- **Full Conductive ESD Protection** - The 3000BD carrier tape in combination with 3M™ 2666 Conductive PSA (pressure sensitive adhesive) Cover Tape provides ultimate ESD protection. The carrier tape is made with a homogenous engineering grade polycarbonate resin giving it volumetric conductive properties. The cover tape is designed with a conductive blocker film layer next to the component thus protecting the components from ESD issues and adhesive residue.

- **Prevents Part Migration** - The 3M™ 3000BD Carrier Tape, in combination with a 3M™ 2666 Conductive PSA cover tape, prevents part migration. The tight pocket with a +/- .002" tolerance in the carrier tape captures the component securely. The 2666 PSA cover tape design provides a flatter cover than standard HAA (heat activated adhesive) cover tapes, and provides a peel force with only +/- 10 grams variation as opposed to +/- 20 grams in standard HAA cover tapes.
- **Clean Room Compatible Packaging** - 3000BD is cleaned and packaged in a class 10,000 cleanroom environment. Each 13" plastic reel is sealed individually into a 3M™ 1900 Static Shielding Bag for protection.

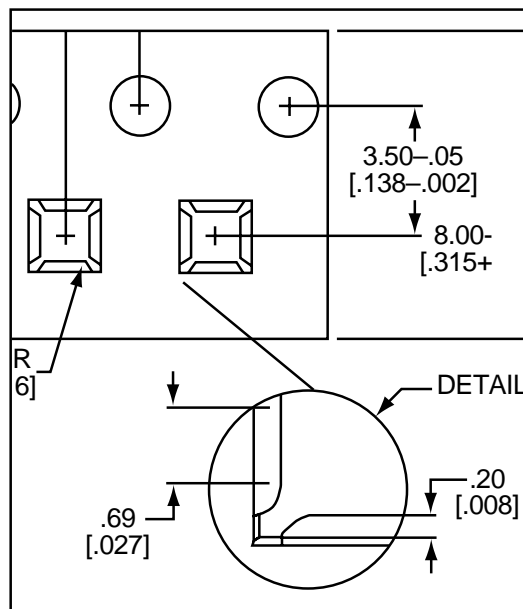
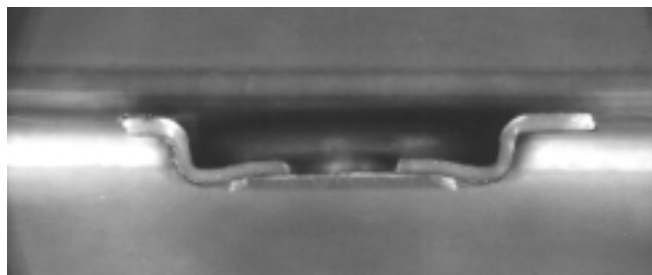
They are then placed in a polyethylene bag. The 3M 2666 PSA cover tape is provided on a plastic core and is also available in a double bag format for clean room compatibility.

- **EIA Compatible** - 3M 3000BD carrier tape is EIA compatible and therefore works on all standard processing equipment and does not require any additions or modifications.
- **High Speed Pick-n-Place** - The tape/reel format provides high speed/high volume component placement up to four times faster than standard tray type transportation.

Precision Polycarbonate Pocket



Typical Traditional Pocket



Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-666-8273. Address correspondence to: 3M Electronic Handling & Protection Division, 6801 River Place Blvd., Austin, TX 78726-9000. Our fax number is 1-800-826-8893.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one year from the date of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.



Electronic Handling & Protection Division Surface Mount Supplies

6801 River Place Blvd.
Austin, TX 78726-9000
800/MMM TAPE (800/666 8273)
Fax 800/826 8893
www.3M.com/ehpd



40% Pre-consumer waste paper
10% Post-consumer waste paper

Litho in USA.

© 3M IPC 2000 80-6111-0163-7