



Cushion Lock™ Directions

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Directions for Packing Items for Shipment Using Scotch™ Cushion Lock™ Protective Wrap

1. Applicability

- a. Cushion Lock™ is designed primarily to be used to wrap items that are going to be shipped or stored in a rigid container such as a corrugated box.
- b. Cushion Lock™ absorbs shocks and vibration protecting delicate objects. It does not protect against water damage, crush damage, piercing damage, or thermal damage.
- c. All paper, including Cushion Lock™, is somewhat abrasive and will damage extremely delicate surfaces.

2. Pull to expand

- a. Expand Cushion Lock™ completely, until the fingered walls are vertical but not so much that it narrows to less than five inches in width. 150% expansion in length is ideal, but it works well between 130% - 180% expansion as well. You can also judge the length expansion by how much the protective wrap narrows when you pull on it. Narrowing to 10 inches gives about 150% expansion and is correct if it opens completely, or you can pull more until it is completely open, then relax back to the 10-inch width.
- b. The material should reveal a regular hexagon pattern. It is likely that not all the material will expand the same way. Sometimes the forward edge goes up and sometimes the forward edge goes down. This will likely change several times in an expanded section. This is normal and will not substantially affect the performance of the protective wrap material.
- c. If you are using a metal dispenser, set the tension high enough that the Cushion Lock™ fully expands when you pull on it, but not so high that it tears when being dispensed.
- d. Pull with two hands, with the partially wrapped object, or by holding the entire web. It is easier to get uniform expansion if the leading edge is pulled all at the same time and not from one point. If you pull from one small point it will tear (as designed).
- e. Keep Cushion Lock™ connected to the roll as you wrap. Pulling from the roll while wrapping allows the tension to remain uniform across the sheet and keeps the Cushion Lock™ expanded.

3. Wrap

- a. Start by setting your item on the expanded wrap and use the item to advance and expand the Cushion Lock™ as you wrap.
- b. It is critical that you keep the material expanded as you wrap. Flat paper is much less protective than expanded Cushion Lock™.
- c. Wrap several layers. 2 inches is minimum for fragile items. More fragile or heavier objects will need more. Once fully wrapped, if you set the object down and the weight of the object compresses the material, it should be greater than 2 inches compressed. To test, set it on the smallest face of the object, where the pressure will be the greatest.

- d. If your object has asperities (parts of the object that protrude or poke out), wrap until the asperities are no longer evident, then start gauging the thickness of the protective wrap required.
 - e. Wrap around all sides, try to use a single piece. If it tears prematurely, restart with your partially wrapped item as in step 2a. You can spiral along a longer or larger item to create complete coverage. Turn during wrapping to cover all surfaces of the item.
 - f. It may seem like you are using an excessive amount of material to wrap an object, but since Cushion Lock™ expands 1.5x or more in length as you wrap, you are using less material than it appears.
 - g. If the item is too big and heavy to manipulate with two hands to wrap, Cushion Lock™ is not an appropriate protective material. Cushion Lock™ works best for items up to about ~10lbs. As items get larger and heavier, they are more difficult to turn and manipulate to wrap. Heavier, denser items also compress the vertical walls and lessen the protection provided by the protective wrap.
4. Multiples
- a. If you are shipping multiple items in the same box, wrap each item individually.
 - b. If you are shipping items that are very different in size, weight, or density, you will need to wrap all the objects with as many layers as you wrap the biggest, heaviest, most dense object, otherwise the bigger objects may crush the smaller ones.
5. Void Fill (Dunnage)
- a. Cushion Lock™ works best wrapped around items but can be used as void fill by wrapping it up in a ball that will fill empty space. Follow directions in section 2 and wrap until the ball is as big as desired to fill the empty space.
6. Tear the material off the roll
- a. No scissors or blade is needed to cut Cushion Lock™. The material interlocks with itself as you wrap, so no tape is needed to secure Cushion Lock™.
7. Pack snugly into box
- a. The wrapped item(s) should be slightly larger than the shipping box. The material should ideally compress 20%, or at least as much as the bottom layers do when you set your wrapped item down, when you put it in the box. A snug fit will better immobilize the contents of the box and prevent shifting.
8. Receiving and Recycling
- a. Cushion Lock™ can be safely removed from your item by tearing it with your fingers.
 - b. Cushion Lock™ is made from the same material as a typical shipping carton and can be recycled the same way.