CLAIMS

1. A fitment bistable pull-snap hold open mechanism, comprising:

a flexible first flat strip comprised of a polyolefin material having:

a first end;

a second end opposite the first end;

an inner mating surface;

an outer bonding surface opposite the inner mating surface;

a flexible second flat strip positioned relative to the first flat strip, the second flat strip comprised of a polyolefin having:

a first end;

a second end opposite the first end;

an inner mating surface;

an outer bonding surface opposite the inner mating surface;

one or more pivot members integrated into the second flat strip separating the second flat strip into a side seal portion and an operable portion, the side seal portion coupled to the operable portion,

wherein the first flat strip is coupled to the second flat strip at both the first ends and the seconds ends with two or more bonding points at each of the first and second ends,

wherein the one or pivot members comprise a vertical living hinge and a flexure allowing the fitment bistable pull-snap hold open mechanism to be biased between an open configuration and a closed configuration,

wherein the vertical living hinge does not extend to the top edge or the bottom edge of the second flat strip, and

wherein the first flat strip and the second flat strip are applied proximate the opening of a flexible package on the inside walls of the package.

2. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the vertical living hinge comprises a thin portion of material coupling outer end corners of the side seal portion and the operable portion of the second flat strip.

3. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the vertical living hinge is created by indenting, engraving, or slitting the inside surface of the polyolefin material of the second flat strip to a specified blind depth.

4. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the vertical living hinge has a material thickness that is 80 percent or less of adjacent portions of the second flat strip.

5. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the vertical living hinge has a material thickness that is 25 percent or less of adjacent portions of the second flat strip.

6. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the gap between the top edge of the second flat strip and top of the vertical living hinge is less than or equal to 2 mm.

7. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the gap between the top edge of the second flat strip and top of the vertical living hinge is less than 50% of the length of the vertical living hinge.

8. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the gap between the bottom edge of the second flat strip and bottom of the vertical living hinge is less than 50% of the length of the vertical living hinge.

9. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the vertical living hinge does not extend to the top edge or the bottom edge of the flexure.

10. The fitment bistable pull-snap hold open mechanism of claim 9 wherein the gap between the top edge and bottom edge of the flexure and the vertical living hinge is less than or equal to 2 mm.

11. The fitment bistable pull-snap hold open mechanism of claim 9 wherein the gap between the top edge and bottom edge of the flexure and the vertical living hinge is less than 50% of the length of the vertical living hinge.

12. The fitment bistable pull-snap hold open mechanism of claim 1, wherein for the two or more bonding points at each of the first and second ends there is one bonding point positioned above the top edge of the flexure and one bonding point positioned below the bottom edge of the flexure.

13. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the flexure includes a flexing point parallel with that of the vertical living hinge allowing the flexure to move from a first flat configuration to a second bent, flexed, or engaged configuration.

14. The fitment bistable pull-snap hold open mechanism of claim 1 further including a pair of grab tabs, wherein the first grab tab extends from the top edge of the first flat strip and the second grab tab extends from top edge of the second flat strip, and wherein the pair of grab tabs are located about midway between the first ends and seconds ends of the first and second flat strips.

15. The fitment bistable pull-snap hold open mechanism of claim 14 wherein the pair of grab tabs are offset from each other when the mechanism is in the closed position.

16. The fitment bistable pull-snap hold open mechanism of claim 1 further including a carrying handle extending from the top edge of the first flat strip and the top edge of the second flat strip.

17. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the mechanism makes a sudden audible snapping sound when actuated from the open position to the closed position and from the closed position to the open position.

18. The fitment bistable pull-snap hold open mechanism of claim 1 wherein the flexible package includes a male-female closure mechanism.

19. A method of using the fitment bistable pull-snap hold open mechanism of claim 1 comprising:

applying a separating pressure between the first flat strip and second flat strip;

sliding the flexure from a first flat configuration to a second bent configuration, holding the first flat strip separate from the second flat strip allowing easy access to the contents of the package;

applying a compressive pressure between the first flat strip and second flat strip; and

sliding the flexure from a second bent configuration to a first flat configuration thus closing and mating the first flat strip relative to the second flat strip to close the package.

20. A fitment bistable pull-snap hold open mechanism, comprising:

a flexible first flat strip comprised of a polyolefin material having:

an inner mating surface;

an outer bonding surface opposite the inner mating surface;

a flexible second flat strip positioned relative to the first flat strip, the second flat stripe comprised of a polyolefin having:

an inner mating surface;

an outer bonding surface opposite the inner mating surface;

one or more pivot members pivotally coupling the first flat strip to the second flat strip;

wherein the first flat strip is coupled to the second flat strip at both the first ends and the seconds ends with two or more bonding points at each of the first and second ends,

wherein the one or pivot members comprise a vertical living hinge and one or more flexures allowing the fitment bistable pull-snap hold open mechanism to be biased between an open configuration and a closed configuration,

wherein the vertical living hinge does not extend to the top edge or the bottom edge of the second flat strip and does not extend to the top edge or the bottom edge of the one or more flexures, and

wherein the first flat strip and the second flat strip are applied proximate the opening of a flexible package on the inside walls of the package.