WHAT IS CLAIMED IS:

1. A dispenser for storing and dispensing a substance, the dispenser comprising:

a compartment for storing the substance; and

an opening in the dispenser in communication with the compartment for dispensing the substance,

an inner layer defining an inner surface of the compartment;

an outer layer defining the outer surface of the dispenser;

a layer comprising a metal foil disposed between the inner layer and the outer layer;

wherein the outer layer comprises a block copolymer and an outer layer polymer comprising polyethylene, the copolymer being effective to provide the outer layer with an impact resistance at least 5% greater than a reference structure, wherein the reference structure comprises a laminate or film of the same thickness as the outer layer, comprises the outer layer polymer, and is free of the block copolymer, and wherein the impact resistance is measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet",

wherein the inner layer comprises an inner layer polymer and the inner layer polymer comprises LDPE, the outer layer polymer comprises LDPE and HDPE, and the block copolymer comprises an SBS block copolymer having thermoplastic elastomer properties.

2. A dispenser for storing and dispensing a substance, the dispenser comprising:

a compartment for storing the substance; and

an opening in the dispenser in communication with the compartment for dispensing the substance,

an inner layer defining an inner surface of the compartment;

an outer layer defining the outer surface of the dispenser;

a layer comprising a metal foil disposed between the inner layer and the outer layer;

wherein the outer layer comprises a block copolymer and an outer layer polymer comprising polyethylene, the copolymer being effective to provide the outer layer with an impact resistance at least 5% greater than a reference structure, wherein the reference structure comprises a laminate or film of the same thickness as the outer layer, comprises the

outer layer polymer, and is free of the block copolymer, and wherein the impact resistance is measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet",

wherein the metal foil comprises aluminum.

3. A dispenser for storing and dispensing a substance, the dispenser comprising:

a compartment for storing the substance; and

an opening in the dispenser in communication with the compartment for dispensing the substance,

an inner layer defining an inner surface of the compartment;

an outer layer defining the outer surface of the dispenser;

a layer comprising a metal foil disposed between the inner layer and the outer layer;

an inner adhesive layer between the inner layer and the layer comprising the metal foil, and an outer adhesive layer between the layer comprising the metal foil and the outer layer;

wherein the outer layer comprises a block copolymer and an outer layer polymer comprising polyethylene, the copolymer being effective to provide the outer layer with an impact resistance at least 5% greater than a reference structure, wherein the reference structure comprises a laminate or film of the same thickness as the outer layer, comprises the outer layer polymer, and is free of the block copolymer, and wherein the impact resistance is measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet".

4. The dispenser of claim 3, wherein the inner adhesive layer and the outer adhesive layer comprise ethylene acrylic acid.

5. A dispenser for storing and dispensing a substance, the dispenser comprising:

a compartment for storing the substance; and

an opening in the dispenser in communication with the compartment for dispensing the substance,

an inner layer defining an inner surface of the compartment;

an outer layer defining the outer surface of the dispenser;

a layer comprising a metal foil disposed between the inner layer and the outer layer;

wherein the outer layer comprises a block copolymer and an outer layer polymer comprising polyethylene, the copolymer being effective to provide the outer layer with an impact resistance at least 5% greater than a reference structure, wherein the reference structure comprises a laminate or film of the same thickness as the outer layer, comprises the outer layer polymer, and is free of the block copolymer, and wherein the impact resistance is measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet",

wherein the layer comprising the metal foil is bonded directly to the inner layer and the outer layer without any adhesive therebetween.

6. A dispenser for storing and dispensing a substance, the dispenser comprising:

a compartment for storing the substance; and

an opening in the dispenser in communication with the compartment for dispensing the substance,

an inner layer defining an inner surface of the compartment;

an outer layer defining the outer surface of the dispenser;

a layer comprising a metal foil disposed between the inner layer and the outer layer;

wherein the outer layer comprises a block copolymer and an outer layer polymer comprising polyethylene, the copolymer being effective to provide the outer layer with an impact resistance at least 5% greater than a reference structure, wherein the reference structure comprises a laminate or film of the same thickness as the outer layer, comprises the outer layer polymer, and is free of the block copolymer, and wherein the impact resistance is measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet",

wherein the dispenser is sufficiently collapsible such that the substance can be extruded from the opening.

7. A dispenser for storing and dispensing a substance, the dispenser comprising:

a compartment for storing the substance; and

an opening in the dispenser in communication with the compartment for dispensing the substance,

an inner layer defining an inner surface of the compartment;

an outer layer defining the outer surface of the dispenser;

a layer comprising a metal foil disposed between the inner layer and the outer layer;

wherein the outer layer comprises a block copolymer and an outer layer polymer comprising polyethylene, the copolymer being effective to provide the outer layer with an impact resistance at least 5% greater than a reference structure, wherein the reference structure comprises a laminate or film of the same thickness as the outer layer, comprises the outer layer polymer, and is free of the block copolymer, and wherein the impact resistance is measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet",

wherein the substance in the dispenser is a member selected from the group consisting of a paste, a gel and a cream.

8. The dispenser of claim 7, wherein the substance is a dentifrice.

9. The dispenser of claim 8, wherein the substance is toothpaste.

10. The dispenser of any preceding claim, wherein the impact resistance of the outer layer is at least 20% greater than the impact resistance of the reference structure.

11. The dispenser of any preceding claim, wherein the outer layer has a thickness of 120microns, and the impact resistance of the outer layer is greater than 180g.

12. The dispenser of any preceding claim, wherein the inner layer polymer comprises polyethylene.

13. A dispenser for storing and dispensing a substance, the dispenser comprising:

an inner layer comprising LDPE;

an outer layer;

an aluminum layer between the inner layer and the outer layer;

a compartment defined by an inner surface of the inner layer, said compartment for storing the substance; and

a resealable opening for dispensing selected amounts of the substance,

wherein the outer layer comprises LDPE, HDPE and an SBS block copolymer having thermoplastic elastomer properties.

14. The dispenser of claim 13, wherein the outer layer has a thickness of 120 microns, and the impact resistance of the outer layer is greater than 180g, the impact resistance being measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet".

15. The dispenser of claim 13 or claim 14, further comprising an inner adhesive layer between the inner layer and the aluminum layer, and an outer adhesive layer between the aluminum layer and the outer layer, wherein the inner adhesive layer and the outer adhesive layer comprise ethylene acrylic acid.

16. The dispenser of claim 13 or claim 14, wherein the aluminum layer is bonded directly to the inner layer and the outer layer without any adhesive therebetween.

17. The dispenser of claim 16, wherein the inner layer and the outer layer are radiation graft modified and/or plasma modified for direct adhesion to the aluminum layer.

WHAT IS CLAIMED IS:

1. A dispenser for storing and dispensing a substance, the dispenser comprising:

a compartment for storing the substance; and

an opening in the dispenser in communication with the compartment for dispensing the substance,

an inner layer defining an inner surface of the compartment;

an outer layer defining the outer surface of the dispenser;

a layer comprising a metal foil disposed between the inner layer and the outer layer;

wherein the outer layer comprises a block copolymer and an outer layer polymer comprising polyethylene, the copolymer being effective to provide the outer layer with an impact resistance at least 5% greater than a reference structure, wherein the reference structure comprises a laminate or film of the same thickness as the outer layer, comprises the outer layer polymer, and is free of the block copolymer, and wherein the impact resistance is measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet".

2. The dispenser of claim 1, wherein the impact resistance of the outer layer is at least 20% greater than the impact resistance of the reference structure.

3. The dispenser of any preceding claim, wherein the outer layer has a thickness of 120microns, and the impact resistance of the outer layer is greater than 180g.

4. The dispenser of any preceding claim, wherein the inner layer comprises an inner layer polymer.

5. The dispenser of claim 4, wherein the inner layer polymer comprises polyethylene.

6. The dispenser of claim 4 or claim 5, wherein the inner layer polymer comprises LDPE, the outer layer polymer comprises LDPE and HDPE, and the block copolymer comprises an SBS block copolymer having thermoplastic elastomer properties.

7. The dispenser of any preceding claim, wherein the metal foil comprises aluminum.

8. The dispenser of any preceding claim, further comprising an inner adhesive layer between the inner layer and the layer comprising the metal foil, and an outer adhesive layer between the layer comprising the metal foil and the outer layer.

9. The dispenser of claim 8, wherein the inner adhesive layer and the outer adhesive layer comprise ethylene acrylic acid.

10. The dispenser of any one of claims 1 to 7, wherein the layer comprising the metal foil is bonded directly to the inner layer and the outer layer without any adhesive therebetween.

11. The dispenser of any preceding claim, wherein the dispenser is sufficiently collapsible such that the substance can be extruded from the opening.

12. The dispenser of any preceding claim, wherein the substance in the dispenser is a member selected from the group consisting of a paste, a gel and a cream.

13. The dispenser of claim 12, wherein the substance is a dentifrice.

14. The dispenser of claim 13, wherein the substance is toothpaste.

15. A dispenser for storing and dispensing a substance, the dispenser comprising:

an inner layer comprising LDPE;

an outer layer;

an aluminum layer between the inner layer and the outer layer;

a compartment defined by an inner surface of the inner layer, said compartment for storing the substance; and

a resealable opening for dispensing selected amounts of the substance,

wherein the outer layer comprises LDPE, HDPE and an SBS block copolymer having thermoplastic elastomer properties.

16. The dispenser of claim 15, wherein the outer layer has a thickness of 120 microns, and the impact resistance of the outer layer is greater than 180g, the impact resistance being measured in accordance with Chinese State Standard GB 9639-88: "Impact Resistance Test of Plastic Film and Sheet".

17. The dispenser of claim 15 or claim 16, further comprising an inner adhesive layer between the inner layer and the aluminum layer, and an outer adhesive layer between the aluminum layer and the outer layer, wherein the inner adhesive layer and the outer adhesive layer comprise ethylene acrylic acid.

18. The dispenser of claim 15 or claim 16, wherein the aluminum layer is bonded directly to the inner layer and the outer layer without any adhesive therebetween.

19. The dispenser of claim 18, wherein the inner layer and the outer layer are radiation graft modified and/or plasma modified for direct adhesion to the aluminum layer.