## Pending Claims

What is claimed is:

1. (Previously presented) A method of forming a continuous multilayer film, comprising:

providing discrete segments of multilayer barrier film, wherein adjacent discrete segments of multilayer barrier film are separated by a gap; and

placing a protective layer adjacent to two adjacent discrete segments of multilayer barrier film such that at least a portion of the protective layer spans the gap to form a continuous film capable of use as a barrier film,

wherein the multilayer barrier film has a water vapor transmission rate of less than about 0.05 g/m2/day at 38° C and 100% relative humidity,

wherein the multilayer barrier film is transmissive to visible and infrared light, and

wherein the protective layer is opaque.

2. (Cancelled)

3. (Previously presented) The method of claim 1, wherein the protective layer includes a protective sheet and an adhesive; and wherein the protective sheet is adjacent to the discrete segments of the multilayer barrier film.

4. (Original) The method of any of the previous claims, further comprising:

placing a weatherable sheet adjacent to the multilayer barrier film.

5. (Original) The method of any of the previous claims, wherein the weatherable sheet includes a fluoropolymer.

6. (Original) The method of claim 5, wherein the fluoropolymer comprises at least one of ethylene-tetrafluoroethylene copolymers (ETFE), ethylene-chloro-trifluoroethylene copolymers (ECTFE), tetrafluoroethylene-hexafluoropropylene copolymers (FEP), tetrafluoroethylene-perfluorovinylether copolymers (PFA, MFA) tetrafluoroethylene-hexafluoropropylene-vinylidene fluoride copolymers (THV), polyvinylidene fluoride homo and copolymers (PVDF), blends thereof, and blends of these and other fluoropolymers.

7. (Original) The method of any of the previous claims, further comprising:

placing a pressure sensitive adhesive on the multilayer barrier film.

8. (Original) The method of claim 7, wherein the pressure sensitive adhesive includes at least one of an acrylate, a silicone, a polyisobutylene, and a urea.

9. (Original) The method of either claim 7 or claim 8, wherein the pressure sensitive adhesive comprises at least one of a UV stabilizer, a hindered amine light stabilizer, an antioxidant, and a thermal stabilizer.

10. (Original) The method of any of the previous claims, wherein each discrete segment of multilayer barrier film has a first side edge and a second side edge, and wherein the method further comprises:
placing a protective layer adjacent to at least one of the first and second side edges of the discrete segments of multilayer barrier film to form a continuously edge protected barrier film wherein all edges of the discrete segments of multilayer barrier film are insulated from the environment.

11. (Original) The method of any of the previous claims, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:
placing a substrate adjacent to the second major surface of the multilayer barrier film.

12. (Original) The method of claim 11, wherein the substrate comprises at least one of polyethylene terephthalate, polyethylene naphthalate, polyetheretherketone, polyaryletherketone, polyacrylate, polyetherimide, polyarylsulfone, polyethersulfone, polyamideimide, or polyimide.

13. (Original) The method of any of the previous claims, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:
placing an electronic device adjacent to the second major surface of the multilayer barrier film.

14. (Original) The method of claim 13, further comprising:
affixing the barrier film and electronic device construction adjacent to a roof.

15. (Original) The method of any of the previous claims, wherein the multilayer barrier film includes a polymer layer and an inorganic barrier layer.

16. (Original) The method of claim 15, wherein the inorganic barrier layer is an oxide layer.

17. (Original) The method of any of the previous claims, wherein the multilayer barrier film includes at least two oxide layers.

18. (Original) The method of any of the previous claims, wherein the multilayer barrier film includes at least two polymers layers.

19. (Original) The method of any of the previous claims, wherein the protective layer is at least one of an ink layer, a metal foil layer, and an inorganic barrier layer.

20. (Original) The method of any of the previous claims, further comprising: forming a roll of the continuous multilayer film.

21. (Previously presented ) A continuous multilayer film, comprising:
a weatherable sheet;
segments of a multilayer barrier film; and
a protective layer overlapping at least a portion of at least two adjacent segments of the multilayer barrier film;
wherein the continuous multilayer film is capable of use as a barrier film in an electronic device
wherein the multilayer barrier film has a water vapor transmission rate of less than about 0.05 g/m2/day at 38° C and 100% relative humidity,
wherein the multilayer barrier film is transmissive to visible and infrared light, and
wherein the protective layer is opaque.

22. (Cancelled)

23. (Previously presented) The film of claim 21, wherein the protective layer includes a protective sheet and an adhesive; and wherein the protective sheet is adjacent to the discrete segments of the multilayer barrier film.

24. (Previously presented) The film of any of claims 21 or 23, wherein the weatherable sheet is adjacent to the multilayer barrier film.

25. (Previously presented) The film of any of any of claims 21, 23, or 24, wherein the weatherable sheet includes a fluoropolymer.

26. (Original) The film of claim 25, wherein the fluoropolymer comprises at least one of ethylene-tetrafluoroethylene copolymers (ETFE), ethylene-chlorotrifluoroethylene copolymers (ECTFE), tetrafluoroethylene-hexafluoropropylene copolymers (FEP), tetrafluoroethylene-perfluorovinylether copolymers (PFA, MFA) tetrafluoroethylene-hexafluoropropylene-vinylidene fluoride copolymers (THV), polyvinylidene fluoride homo and copolymers (PVDF), blends thereof, and blends of these and other fluoropolymers. Fluoropolymers typically comprise homo or copolymers of TFE, CTFE, VDF, HFP or other fully fluorinated, partially

fluorinated or hydrogenated monomers such as vinyl ethers and alpa-olefins or other halogen containing monomers.

27. (Previously presented) The film of any of claims 21 or 23-26, further comprising:
a pressure sensitive adhesive between the multilayer barrier film and the weatherable sheet.

28. (Original) The film of claim 27, wherein the pressure sensitive adhesive includes at least one of an acrylate, a silicone, a polyisobutylene, and a urea.

29. (Original) The film of either claim 27 or claim 28, wherein the pressure sensitive adhesive comprises at least one of a UV stabilizer, a hindered amine light stabilizer, an antioxidant, and a thermal stabilizer.

30. (Previously presented) The film of any of claims 21 or 23-29, wherein each segment of multilayer barrier film has a first side edge and a second side edge, and wherein the continuous multilayer film further comprises:
a protective layer adjacent to at least one of the first and second side edges of the multilayer barrier film to form a continuously edge protected barrier film wherein all edges of the multilayer barrier film are insulated from the environment.

31. (Previously presented) The film of any of claims 21 or 23-30, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:
a substrate adjacent to the second major surface of the multilayer barrier film.

32. (Original) The film of claim 31, wherein the substrate comprises at least one of polyethylene terephthalate, polyethylene naphthalate, polyetheretherketone, polyaryletherketone, polyacrylate, polyetherimide, polyarylsulfone, polyethersulfone, polyamideimide, or polyimide.

33. (Previously presented) The film of any of claims 21 or 23-32, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:
an electronic device adjacent to the second major surface of the multilayer barrier film.

34. (Original) The film of claim 33, wherein the electronic device is a photovoltaic cell.

35. (Previously presented) The film of any of claims 21 or 23-34, wherein the multilayer barrier film includes a polymer layer and an inorganic barrier layer.

36. (Original) The film claim 35, wherein the inorganic barrier layer is an oxide layer.

37. (Previously presented) The film of any of claims 21 or 23-36, wherein the multilayer barrier film includes at least two oxide layers.

38. (Previously presented) The film of any of claims 21 or 23-37, wherein the multilayer barrier film includes at least two polymers layers.

39. (Previously presented) The film of any of claims 21 or 23-38, wherein the protective layer is at least one of an ink layer, a metal foil layer, and an inorganic barrier layer.

40. (Previously presented) The film of any of claims 21 or 23-39, wherein the continuous multilayer film forms a roll.

41. (Original) The film of claim 40, wherein the roll includes a plurality of discrete sheets of barrier film.

42. (Previously presented) The method of any of claims 1 or 2-19, wherein the protective layer includes multiple segments each of which has a first terminal edge and a second terminal edge, and wherein the method further comprises: placing a segment of protective layer adjacent to two adjacent discrete segments of multilayer barrier film such that the first and second terminal edges of the segment of protective layer span the gap to form a continuous film capable of use as a barrier film.

What is claimed is:

1. A method of forming a continuous multilayer film, comprising:

providing discrete segments of multilayer barrier film, wherein adjacent discrete segments of multilayer barrier film are separated by a gap; and

placing a protective layer adjacent to two adjacent discrete segments of multilayer barrier film such that at least a portion of the protective layer spans the gap to form a continuous film capable of use as a barrier film,

wherein the multilayer barrier film has a water vapor transmission rate of less than about 0.05 g/m2/day at 38° C and 100% relative humidity,

wherein the multilayer barrier film is transmissive to visible and infrared light, and

wherein the protective layer is opaque.

2. The method of claim 1, wherein the protective layer includes a protective sheet and an adhesive; and wherein the protective sheet is adjacent to the discrete segments of the multilayer barrier film.

3. The method of any of the previous claims, further comprising:

placing a weatherable sheet adjacent to the multilayer barrier film.

4. The method of any of the previous claims, wherein the weatherable sheet includes a fluoropolymer.

5. The method of any of the previous claims, further comprising:

placing a pressure sensitive adhesive on the multilayer barrier film.

6. The method of claim 5, wherein the pressure sensitive adhesive includes at least one of an acrylate, a silicone, a polyisobutylene, and a urea.

7. The method of either claim 5 or claim 6, wherein the pressure sensitive adhesive comprises at least one of a UV stabilizer, a hindered amine light stabilizer, an antioxidant, and a thermal stabilizer.

8. The method of any of the previous claims, wherein each discrete segment of multilayer barrier film has a first side edge and a second side edge, and wherein the method further comprises:

placing a protective layer adjacent to at least one of the first and second side edges of the discrete segments of multilayer barrier film to form a continuously edge protected barrier film wherein all edges of the discrete segments of multilayer barrier film are insulated from the environment.

9. The method of any of the previous claims, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:

placing a substrate adjacent to the second major surface of the multilayer barrier film.

10. The method of claim 9, wherein the substrate comprises at least one of polyethylene terephthalate, polyethylene naphthalate, polyetheretherketone, polyaryletherketone, polyacrylate, polyetherimide, polyarylsulfone, polyethersulfone, polyamideimide, or polyimide.

11. The method of any of the previous claims, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:

placing an electronic device adjacent to the second major surface of the multilayer barrier film.

12. A continuous multilayer film, comprising:

a weatherable sheet;

segments of a multilayer barrier film; and

a protective layer overlapping at least a portion of at least two adjacent segments of the multilayer barrier film;

wherein the continuous multilayer film is capable of use as a barrier film in an electronic device

wherein the multilayer barrier film has a water vapor transmission rate of less than about 0.05 g/m2/day at 38° C and 100% relative humidity,

wherein the multilayer barrier film is transmissive to visible and infrared light, and

wherein the protective layer is opaque.

13. The film of claim 12, wherein the protective layer includes a protective sheet and an adhesive; and wherein the protective sheet is adjacent to the discrete segments of the multilayer barrier film.

14. The film of any of claims 12 or 13, wherein the weatherable sheet is adjacent to the multilayer barrier film.

15. The film of any of claims 12, 13 or 14, wherein the weatherable sheet includes a fluoropolymer.

16. The film of any of claims 12 or 13-15, further comprising:

a pressure sensitive adhesive between the multilayer barrier film and the weatherable sheet.

17. The film of claim 16, wherein the pressure sensitive adhesive includes at least one of an acrylate, a silicone, a polyisobutylene, and a urea.

18. The film of either claim 16 or claim 17, wherein the pressure sensitive adhesive comprises at least one of a UV stabilizer, a hindered amine light stabilizer, an antioxidant, and a thermal stabilizer.

19. The film of any of claims 12 or 13-18, wherein each segment of multilayer barrier film has a first side edge and a second side edge, and wherein the continuous multilayer film further comprises:

a protective layer adjacent to at least one of the first and second side edges of the multilayer barrier film to form a continuously edge protected barrier film wherein all edges of the multilayer barrier film are insulated from the environment.

20. The film of any of claims 12 or 13-19, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:

a substrate adjacent to the second major surface of the multilayer barrier film.

21. The film of claim 20, wherein the substrate comprises at least one of polyethylene terephthalate, polyethylene naphthalate, polyetheretherketone, polyaryletherketone, polyacrylate, polyetherimide, polyarylsulfone, polyethersulfone, polyamideimide, or polyimide.

22. The film of any of claims 12 or 13-21, wherein the multilayer barrier film has a first major surface and a second major surface and the protective layer is adjacent to the first major surface, further comprising:

an electronic device adjacent to the second major surface of the multilayer barrier film.

23. The film of claim 22, wherein the electronic device is a photovoltaic cell.

24. The film of any of claims 12 or 13-23, wherein the multilayer barrier film includes a polymer layer and an inorganic barrier layer.

25. The method of any of claims 1 or 2-11, wherein the protective layer includes multiple segments each of which has a first terminal edge and a second terminal edge, and wherein the method further comprises:

placing a segment of protective layer adjacent to two adjacent discrete segments of multilayer barrier film such that the first and second terminal edges of the segment of protective layer span the gap to form a continuous film capable of use as a barrier film.