What is claimed is:

1. A modular carpet system, comprising:

a carpet tile comprising a face and a backing, wherein the backing comprises a polymer having at least 50% amorphous content, wherein the carpet tile is operative for remaining dimensionally stable under adverse conditions, wherein adverse conditions comprise at least one of

a moisture vapor emission rate of at least 1.8 kg/24 hr/93 sq. m,

an in situ relative humidity of at least 80%, and

a surface moisture pH of at least 8; and

an adhesive component comprising a silicone-based adhesive.

2. The system of claim 1, wherein the adverse conditions comprise at least one of

a moisture vapor emission rate of at least 2.3 kg/24 hr/93 sq. m,

an in situ relative humidity of at least 90%, and

a surface moisture pH of at least 10.

3. The system of claim 1, wherein the polymer comprises polyvinyl butyral.

4. The system of claim 1, wherein the polymer comprises modified polycarbonate, ultra high molecular weight polyethylene, atactic polypropylene, a silicone elastomer, a thermoplastic polyolefin, a thermoplastic elastomer, bitumen, or any combination thereof.

5. The system of claim 1, wherein the backing further comprises a filler.

6. The system of claim 5, wherein the backing comprises from 25 to 60 wt% polyvinyl butyral and from 40 to 75 wt% filler.

7. The system of claim 1, wherein the backing further comprises a plasticizer.

8. The system of claim 7, wherein

the adhesive is in contact with the backing, and

the adhesive resists being plasticized by the plasticizer after exposure to 60°C for 30 days.

9. The system of claim 1, wherein remaining dimensionally stable under adverse conditions comprises having a change in length or width of less than 0.15% after being immersed in water for at least 2 hours.

10. The system of claim 1, wherein remaining dimensionally stable under adverse conditions comprises having a change in length or width of less than 0.15% as measured using ISO 2551.

11. The system of claim 1, wherein remaining dimensionally stable under adverse conditions comprises having a planar deviation of less than 0.20 cm after being immersed in water for 2 hours.

12. The system of claim 1, wherein the adhesive has an adhesive tack of greater than 2.35 N/sq. cm prior to the exposure to adverse conditions.

13. The system of claim 1, wherein the adhesive has an adhesive tack of 5.16 N/sq. cm prior to exposure to the adverse conditions.

14. The system of claim 1, wherein the adhesive has an adhesive tack of greater than 1.36 N/sq. cm after being immersed in water for 1 day.

15. The system of claim 1, wherein the adhesive has an adhesive tack of greater than 1.57 N/sq. cm after being immersed in a pH 12 solution for 1 day.

16. The system of claim 1, wherein the adhesive has shear strength of from 14.9 N/sq. cm to 23.0 N/sq. cm prior to exposure to the adverse conditions.

17. The system of claim 1, wherein the adhesive component comprises an adhesive tape, an unsupported adhesive fastener, an adhesive coating, or any combination thereof.

18. The system of claim 1, wherein

the adhesive component comprises an adhesive tape, and

the adhesive tape exhibits substantially no delamination after exposure to the adverse conditions.

19. The system of claim 1, wherein the adhesive component comprises an adhesive tape having a thickness of from 0,00254 cm to 0.0127 cm.

20. The system of claim 1, wherein the adhesive component comprises an adhesive tape having a tensile strength of from 89 N to 178 N.

21. The system of any of claims 1 to 20, used in an installation comprising the adhesive component and the carpet tile.

22. The system of claim 21, wherein

the carpet tile is a first carpet tile of a plurality of carpet tiles, the plurality of carpet tiles being positioned in a side by side configuration in the installation, and

the adhesive component maintains the plurality of carpet tiles in the side by side configuration within the installation.

23. The system of any of claims 1 to 20, used according to a method comprising securing the carpet tile in an installation with the adhesive component under adverse conditions, wherein the adverse conditions comprise at least one of

a moisture vapor emission rate of at least 2.3 kg/24 hr/93 sq. m,

an in situ relative humidity of at least 90%, and

a surface moisture pH of at least 10,

wherein the carpet tile resists deformation under the adverse conditions.

24. The system of any of claims 1 to 20, used according to a method comprising securing the carpet tile in an installation with the adhesive component under adverse conditions, wherein the adverse conditions comprise at least one of

a moisture vapor emission rate of at least 2.3 kg/24 hr/93 sq. m,

an in situ relative humidity of at least 90%, and

a surface moisture pH of at least 10,

wherein

the carpet tile resists deformation under the adverse conditions, and

the adhesive component maintains the carpet tile in the installation under the adverse conditions.

25. A modular carpet system, comprising:

a carpet tile comprising a face and a backing, wherein the backing comprises polyvinyl butyral, the polyvinyl butyral being at least 50% amorphous, wherein the carpet tile undergoes a change in length or width of less than 0.15% after being immersed in water for at least 2 hours; and

an adhesive component comprising a silicone-based adhesive, wherein

the adhesive has an initial adhesive tack of greater than 2.35 N/sq. cm, and

the adhesive has an adhesive tack of greater than 1.36 N/sq. cm after being immersed in water for 1 day.

26. The system of claim 25, wherein the adhesive has an adhesive tack of 5.16 N/sq. cm prior to exposure to adverse conditions.

27. The system of claim 25, wherein the adhesive has an initial shear strength of from 14.9 N/sq. cm to 23.0 N/sq. cm.

28. The system of claim 25, wherein the backing comprises from 25 to 60 wt% polyvinyl butyral.

2927. The system of claim 25 ~~or 26~~, wherein the adhesive component comprises an adhesive tape, an unsupported adhesive fastener, an adhesive coating, or any combination thereof.

30. The system of any of claims 25 to 29, wherein

the carpet tile is a first carpet tile of a plurality of carpet tiles, the plurality of carpet tiles being positioned in a side by side configuration in an installation, and

the adhesive component maintains the plurality of carpet tiles in the side by side configuration within the installation.

31. The system of any of claims 25 to 29, used according to a method comprising securing the carpet tile in an installation with the adhesive component under adverse conditions, wherein the adverse conditions comprise at least one of

a moisture vapor emission rate of at least 2.3 kg/24 hr/93 sq. m,

an in situ relative humidity of at least 90%, and

a surface moisture pH of at least 10,

wherein

the carpet tile resists deformation under the adverse conditions, and

the adhesive component maintains the carpet tile in the installation under the adverse conditions.

3228. A modular carpet system, comprising:

a carpet tile comprising a face and a backing, wherein the backing comprises polyvinyl butyral, the polyvinyl butyral being at least 50% amorphous, wherein the carpet tile is operative for remaining dimensionally stable under adverse conditions, wherein adverse conditions comprise at least one of

a moisture vapor emission rate of at least 1.8 kg/24 hr/93 sq. m,

an in situ relative humidity of at least 80%, and

a surface moisture pH of at least 8; and

an adhesive tape comprising a silicone-based adhesive.

3329. The system of claim 3228, wherein the adverse conditions comprise at least one of

a moisture vapor emission rate of up to 3.6 kg/24 hr/93 sq. m,

an in situ relative humidity of up to 85%, and

a surface moisture pH of up to 11.

34. The system of claim 32, wherein remaining dimensionally stable under the adverse conditions comprises having at least one of:

a change in length or width of less than 0.15% after being immersed in water for at least 2 hours,

a change in length or width of less than 0.15% as measured using ISO 2551, and

a planar deviation of less than 0.20 cm after being immersed in water for 2 hours.

35. The system of any of claims 32 to 34, wherein the adhesive has at least one of:

an adhesive tack of greater than 2.35 N/sq. cm prior to exposure to the adverse conditions,

an adhesive tack of greater than 1.36 N/sq. cm after being immersed in water for 1 day, and

an adhesive tack of greater than 1.57 N/sq. cm after being immersed in a pH 12 solution for 1 day.

36. The system of any of claims 32 to 34, wherein the adhesive has an adhesive tack of 5.16 N/sq. cm prior to exposure to the adverse conditions.

37. The system of any of claims 32 to 34, wherein the backing comprises from 25 to 60 wt% polyvinyl butyral.

38. The system of any of claims 32 to 34, wherein the adhesive tape has

a thickness of from 0.00254 cm to 0.0127 cm, and

a tensile strength of from 14 kN/sq. cm. to 28 kN/sq. cm.

39. The system of any of claims 32 to 34, used in an installation comprising the adhesive and a plurality of the carpet tiles, wherein

the carpet tiles are positioned in an edge to edge configuration, and

the adhesive tape connects adjacent tiles to one another in the edge to edge configuration.

4030. A modular carpet system, comprising:

a carpet tile comprising a face and a backing, wherein the backing comprises polyvinyl butyral, the polyvinyl butyral being at least 50% amorphous, wherein the carpet tile exhibits a planar deviation of less than 0.20 cm 0after being immersed in water for 2 hours; and

an adhesive component comprising a silicone-based adhesive, wherein

the adhesive has an initial adhesive tack of greater than 2.35 N/sq. cm, and

the adhesive has an adhesive tack of greater than 1.36 N/sq. cm after being immersed in water for 1 day.

41. The system of claim 40, wherein the adhesive has an initial shear strength of from 14.9 N/sq. cm to 23.0 N/sq. cm.

42. The system of claim 40, wherein the backing comprises a filler and from 25 to 60 wt% polyvinyl butyral.

43. The system of claim 40, wherein the adhesive component comprises an adhesive tape, an unsupported adhesive fastener, an adhesive coating, or any combination thereof.

44. The system of claim 40, wherein the adhesive component comprises an adhesive tape having

a thickness of from 0.00254 cm to 0.0127 cm, and

a tensile strength of from 14 kN/sq. cm. to 28 kN/sq. cm.

45. The system of any one of claims 40 to 44, used in an installation comprising the adhesive and a plurality of the carpet tiles, wherein

the carpet tiles are positioned in an edge to edge configuration, and

the adhesive component is for securing the plurality of carpet tiles in the edge to edge configuration.