Claims:

1. An adhesive composition comprising:

   a. a first propylene-based copolymer component comprising propylene and at least one comonomer wherein the first propylene-based copolymer component has a propylene content of greater than 50 mol% and a weight average molecular weight of 100,000 or less; and

   b. a second propylene-based copolymer component comprising propylene and at least one comonomer wherein the second propylene-based copolymer component has a propylene content of greater than 50 mol%, a comonomer content of at least 2 mol% greater than the comonomer content of the first propylene-based copolymer component, and a weight average molecular weight of 100,000 or less~~.~~,

   wherein the first propylene-based copolymer has a heat of fusion of between about 1 and about 120 J/g and wherein the second propylene-based copolymer has a heat of fusion of between about 1 and about 100 J/g;

   wherein the at least one comonomer of the first propylene-based copolymer component and the second propylene-based copolymer component is ethylene; and

   wherein the second propylene-based polymer component has a viscosity of 1,500 mPa·sec or more at 190°C.

2. The adhesive composition of claim 1, wherein the comonomer content of the second propylene-based copolymer component is at least 4 mol% greater than the comonomer content of the first propylene-based copolymer component.

3. The adhesive composition of claim 1 ~~or claim 2~~, wherein the difference in comonomer content between the first propylene-based copolymer component and the second propylene-based copolymer component is about 2 mol% to about 16 mol%.

4. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the comonomer content of the first propylene-based copolymer component is greater than 1 mol% and the comonomer content of the second propylene-based copolymer component is greater than 5 mol%.

5. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the weight content ratio of the first propylene-based copolymer component to second propylene-based copolymer component is greater than 3:1 in the adhesive composition.

6. The adhesive composition of ~~any one of claims~~ claim 1 ~~to 3~~, wherein the weight content ratio of the first propylene-based copolymer component to second propylene-based copolymer component is between about 4:1 to about 1:4 and wherein the first propylene-based copolymer component and second propylene-based copolymer component comprise at least 50 wt% of the adhesive composition.

7. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the first propylene-based copolymer component and the second propylene-based copolymer component have a difference in heat of fusion of at least 20 J/g.

8. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the first propylene-based copolymer component and the second propylene-based copolymer component have a difference in heat of fusion of at least 30 J/g.

~~9. The adhesive composition of any of the preceding claims, wherein the at least one comonomer of the first propylene-based copolymer component and second propylene-based copolymer component is selected from ethylene and a C_4 to C_{20} alpha-olefin.~~

~~10. The adhesive composition of any one of the preceding claims, wherein the at least one comonomer of the first propylene-based copolymer component and the second propylene-based copolymer component is ethylene.~~

~~11. The adhesive composition of any one of the preceding claims, wherein the at least one comonomer of the first propylene-based copolymer component is ethylene and the at least one comonomer second propylene-based copolymer component is a C_4 to C_{20} alpha-olefin.~~

~~12. The adhesive composition of any one of the preceding claims, wherein the at least one comonomer of the first propylene-based copolymer component is a C_4 to C_{20} alpha-olefin and the at least one comonomer of the second propylene-based copolymer component is ethylene.~~

~~13.~~9. The adhesive composition of ~~any one of the preceding claims~~ claim 1, further comprising at least one tackifier resin component.

~~14.~~10. The ~~functionalized component~~ adhesive composition of ~~any one of the preceding claims~~ claim 1, further comprising at least one functionalized component.

~~15.~~11. The adhesive composition of ~~any one of the preceding claims~~ claim 1, further comprising at least one block copolymer.

~~16.~~12. The adhesive composition of ~~any one of the preceding claims~~ claim 1, further comprising at least one ester copolymer.

~~17.~~13. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the adhesive composition comprises from 1 wt% to 50 wt% of the first propylene-based copolymer and from 1 wt% to 50 wt% of the second propylene-based copolymer component.

~~18.~~14. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the adhesive composition comprises from 1 wt% to 70 wt% of the first propylene-based copolymer and from 1 wt% to 70 wt% of the second propylene-based copolymer component and from 10 wt% to 50 wt% tackifier resin component.

~~19.~~15. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the set time is less than 3 seconds and the fiber tear is greater than 80%.

~~20.~~16. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the first propylene-based copolymer component and second propylene-based copolymer component have an MFR of greater than 500 dg/min.

~~21.~~17. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein each of the first propylene-based copolymer component and second propylene-based copolymer component have a Brookfield Viscosity of greater than 500 mPa·sec (as measured by ASTM D 3236 at 190°C).

~~22.~~18. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the first propylene-based copolymer component has a heat of fusion of greater than 30 J/g and the second propylene-based copolymer component has a heat of fusion of less than 20 J/g.

~~23.~~19. The adhesive composition of ~~any one of the preceding claims~~ claim 1, wherein the first propylene-based copolymer component has a comonomer content of from 1 mol% to 14 mol% and the second propylene-based copolymer component has a comonomer content of from 14 mol% to 50 mol%.

~~24.~~20. An adhesive composition comprising:

a. a first propylene-based copolymer component comprising propylene and at least one comonomer wherein the first propylene-based copolymer component has a propylene content of greater than 50 mol% and a weight average molecular weight of 100,000 or less; and

b. a second propylene-based copolymer component comprising propylene and at least one comonomer wherein the second propylene-based copolymer component has a propylene content of greater than 50 mol%, a heat of fusion of at least 10 J/g less than the heat of fusion of the first propylene-based copolymer component, a comonomer

content of at least 2 mol% greater than the comonomer content of the first propylene-based copolymer component, and a weight average molecular weight of less than 100,000 or less~~.~~;

wherein the first propylene-based copolymer has a heat of fusion of between about 1 and about 120 J/g and wherein the second propylene-based copolymer has a heat of fusion of between about 1 and about 100 J/g;

wherein the at least one comonomer of the first propylene-based copolymer component and the second propylene-based copolymer component is ethylene; and

wherein the second propylene-based polymer component has a viscosity of 1,500 mPa·sec or more at 190°C.

~~25.~~21. A hot melt adhesive composition comprising:

a. from 1 wt% to 70 wt% of a first propylene-based copolymer component comprising propylene and at least one comonomer wherein the first propylene-based copolymer component has a propylene content of greater than 50 mol%, a comonomer content of less than 14 mol%, a heat of fusion of greater than 30 J/g, and a Brookfield viscosity of greater than 500 mPa·sec at 190°C;

b. from 1 wt% to 70 wt% of a second propylene-based copolymer component comprising propylene and at least one comonomer wherein the second propylene-based copolymer component has a propylene content of greater than 50 mol%, a comonomer content of greater than 14 mol% and at least 2 mol% greater than the comonomer content of the first propylene-based copolymer component, a heat of fusion that is at least 10 J/g less than the first propylene-based polymer component, and a Brookfield viscosity of greater than 500 mPa·sec at 190°C;

c. from 1 wt% to 80 wt% of a tackifier resin component; and

d. from 1 wt% to 20 wt% of a wax~~.~~;

wherein the first propylene-based copolymer has a heat of fusion of between about 1 and about 120 J/g and wherein the second

propylene-based copolymer has a heat of fusion of between about 1 and about 100 J/g;

wherein the at least one comonomer of the first propylene-based copolymer component and the second propylene-based copolymer component is ethylene; and

wherein the second propylene-based polymer component has a viscosity of 1,500 mPa·sec or more at 190°C.

22. The adhesive composition of claim 1, further comprising (c) a functional component, wherein the functional component is present in the amount of less than 15 wt%.

23. The adhesive composition of claim 20, further comprising (c) a functional component, wherein the functional component is present in the amount of less than 15 wt%.

24. The adhesive composition of claim 21, further comprising (e) a functional component, wherein the functional component is present in the amount of less than 15 wt%.