Claims

~~What is claimed is:~~

1. A fluorine-containing ethylene-vinyl alcohol copolymer resin composition, comprising:

   an ethylene-vinyl alcohol copolymer, and

   at least one fluorine-containing particle,

   wherein the fluorine-containing ethylene-vinyl alcohol copolymer resin composition has a total fluoride ion content ranging from 45 to 41000 ppm, wherein the fluorine-containing particle includes a fluorinated polymer.

2. The fluorine-containing ethylene-vinyl alcohol copolymer resin composition of claim 1, wherein the fluorine-containing ethylene-vinyl alcohol copolymer resin composition has a surface fluoride ion content ranging from 1 to 126 ppm.

~~3. The fluorine-containing ethylene-vinyl alcohol copolymer resin composition of claim 1 or 2, wherein the fluorine-containing particle includes a fluorinated polymer.~~

~~4.~~3. The fluorine-containing ethylene-vinyl alcohol copolymer resin composition of ~~any one of~~ claim~~s~~ 1 or~~to~~ ~~2~~3, further including at least two melting point temperatures:

   a first melting point temperature of 100°C to about 140°C and a second melting point temperature of 150°C to about 195°C.

~~5.~~4. The fluorine-containing ethylene-vinyl alcohol copolymer resin composition of any one of claims 1 to ~~3~~4, wherein a ratio of the surface fluoride ion content to the total fluoride ion content of the fluorine-containing ethylene-vinyl alcohol copolymer resin composition ranges from 0.0015 to 0.03.

~~6.~~5. The fluorine-containing ethylene-vinyl alcohol copolymer resin composition of

any one of claims 1 to 45, wherein an ethylene content of the ethylene-vinyl alcohol copolymer is 24-48 mole%.

7.6.The fluorine-containing ethylene-vinyl alcohol copolymer resin composition of any one of claims 1 to 56, wherein the ethylene-vinyl alcohol copolymer has a degree of saponification greater than 99.5 mole%.

8.7.The fluorine-containing ethylene-vinyl alcohol copolymer resin composition of any one of claims 1 to 67, wherein the fluorine-containing ethylene-vinyl alcohol copolymer resin composition further contains a boron content of 50-250 ppm.

9.8.A fluorine-containing ethylene-vinyl alcohol copolymer resin composition, comprising: an ethylene-vinyl alcohol copolymer and at least one fluorine-containing particle, wherein the fluorine-containing ethylene-vinyl alcohol copolymer resin composition has a ratio of a surface fluoride ion content to a total fluoride ion content ranges from 0.0015 to 0.03, wherein the fluorine-containing particle includes a fluorinated polymer.

10.9. A mixture containing fluorine-containing ethylene-vinyl alcohol copolymer resin composition, comprising:

the fluorine-containing ethylene-vinyl alcohol copolymer resin composition of any one of claims 1 to 89, and

a first ethylene-vinyl alcohol copolymer;

wherein per 20 g of the mixture has a total fluoride ion content ranging from 100 to 11000 ppm.

11.10. The mixture of claim 910, wherein the mixture has a surface fluoride ion content ranging from 2 to 55 ppm.

12.11. The mixture of claim 1011, wherein a ratio of the surface fluoride ion content to the total fluoride ion content of the mixture ranges from 0.0019 to 0.04.

~~13.~~12. The mixture of any one of claims ~~9~~10 to 11~~12~~, wherein the fluorine-containing ethylene-vinyl alcohol copolymer resin composition has an ethylene content that is the same as or different from an ethylene content of the first ethylene-vinyl alcohol copolymer.

~~14.~~13. A blend containing fluorine-containing ethylene-vinyl alcohol copolymer resin composition, comprising:

the fluorine-containing ethylene-vinyl alcohol copolymer resin composition of any one of claims 1 to ~~8~~9,

a first ethylene-vinyl alcohol copolymer, and

a second ethylene-vinyl alcohol copolymer;

wherein the first ethylene-vinyl alcohol copolymer has an ethylene content that is different from an ethylene content of the second ethylene-vinyl alcohol copolymer, and per 20 g of the blend has a total fluoride ion content ranges from 200 to 2000 ppm.

~~15.~~14. The blend of claim 13~~14~~, wherein a ratio of a surface fluoride ion content to the total fluoride ion content of the blend ranges from 0.0013 to 0.045.