Claims

[Claim 1]

A powder coating material composition, comprising a tetrafluoroethylene-based copolymer, wherein the tetrafluoroethylene-based copolymer is a copolymer of 9.0 to 13.0 mass% of hexafluoropropylene, 0.8 to 3.0 mass% of a perfluoroalkyl vinyl ether, and tetrafluoroethylene, having a melt flow rate of 13 to 26 g/10-min, ~~and~~ a melting point of 240 to 270°C, an average particle size of 5 to 500 μm and an apparent density of 0.5 to 1.1 g/ml.

~~[Claim 2]~~

~~The powder coating material composition according to claim 1, wherein the tetrafluoroethylene-based copolymer has an average particle size of 5 to 500 μm and an apparent density of 0.5 to 1.1 g/ml.~~

[Claim ~~3~~2]

The powder coating material composition according to claim 1~~ or 2~~, further comprising a thermal stabilizer and/or a coloring pigment.

[Claim ~~4~~3]

The powder coating material composition according to ~~any one of claims 1 to 3~~claim 2, wherein the thermal stabilizer is at least any one selected from the group consisting of an amine-type antioxidant, an organic sulfur-containing compound, and a metal powder.

[Claim ~~5~~4]

A film formed from the powder coating material composition according to any one of claims 1 to ~~4~~3.

[Claim ~~6~~5]

A film formed form the powder coating material composition according to any one of claims 1 to ~~4~~3 by an electrostatic coating method.

[Claim ~~7~~6]

A laminate, comprising the film according to claim ~~5~~4.

[Claim ~~8~~7]

A laminate, comprising the film according to claim ~~5~~4 in a surface layer.

[Claim ~~9~~8]

A coated article, wherein the film according to claim ~~5~~4 is provided on a metal substrate.

[Claim ~~10~~9]

A coated article, wherein a metal substrate is piping, a pipe, or a duct, and the film according to claim ~~5~~4 is provided on an inner surface thereof.

[Claim ~~11~~10]

A film-forming method, comprising:

(1) forming a primer film on an object to be coated; and

(2) forming a film on a surface of the primer film by using the powder coating material composition according to any one of claims 1 to ~~4~~3 by an electrostatic coating method.