Claims

[Claim 1]

A pressure-sensitive adhesive film, comprising:

a base material layer; and

a pressure-sensitive adhesive layer,

wherein a material for the base material layer is at least one kind selected from polyimide and polyether ether ketone;

wherein the pressure-sensitive adhesive layer has a pressure-sensitive adhesive strength to a glass plate at 23°C, a tensile rate of 300 mm/min, and a peel angle of 180° of 1 N/25 mm or more; and

wherein the pressure-sensitive adhesive film has a tanδ(0.7%) at a strain of 0.7% of 0.1 or less, which is measured in a tension mode of a viscoelasticity-measuring apparatus.

[Claim 2]

A pressure-sensitive adhesive film, comprising:

a base material layer; and

a pressure-sensitive adhesive layer,

wherein a material for the base material layer is at least one kind selected from polyimide and polyether ether ketone;

wherein the pressure-sensitive adhesive layer has a pressure-sensitive adhesive strength to a glass plate at 23°C, a tensile rate of 300 mm/min, and a peel angle of 180° of 1 N/25 mm or more; and

wherein a difference (tanδ(0.7%)-tanδ(0.1%)) between a tanδ(0.7%) of the pressure-sensitive adhesive film at a strain of 0.7% and a tanδ(0.1%) thereof at a strain of 0.1%, which are measured in a tension mode of a viscoelasticity-measuring apparatus, is 0.05 or less.

[Claim 3]

The pressure-sensitive adhesive film according to claim 1 or 2, wherein the pressure-sensitive adhesive film has a bending angle of from 60° to 180° after the pressure-sensitive adhesive film has been bent at a diameter of 6 mmφ and held at 90°C for 48 hours, and then the bending has been released, and the pressure-sensitive adhesive film has been left to stand at 23°C and 50%RH for 24 hours.

[Claim 4]

The pressure-sensitive adhesive film according to any one of claims 1 to 3, further comprising a top coat layer on a surface of the base material layer opposite to a surface thereof having the pressure-sensitive adhesive layer.

[Claim 5]

The pressure-sensitive adhesive film according to claim 4, wherein the top coat layer contains a binder containing at least one kind selected from a polyester resin and a urethane-based

resin.

[Claim 6]

The pressure-sensitive adhesive film according to claim 5, wherein the binder contains the urethane-based resin.

[Claim 7]

The pressure-sensitive adhesive film according to any one of claims 4 to 6, wherein the top coat layer contains an antistatic component.

[Claim 8]

The pressure-sensitive adhesive film according to any one of claims 1 to 7, wherein the base material layer has a Young's modulus of 6.0×10^{7} Pa or more at 23°C.

[Claim 9]

The pressure-sensitive adhesive film according to any one of claims 1 to 3, further comprising a top coat layer on a surface of the base material layer opposite to a surface thereof having the pressure-sensitive adhesive layer,

wherein the top coat layer contains a binder containing a urethane-based resin and an antistatic component.

[Claim 10]

The pressure-sensitive adhesive film according to any one of claims 1 to 9, wherein the pressure-sensitive adhesive film has a total light transmittance of 20% or more.

[Claim 11]

The pressure-sensitive adhesive film according to any one of claims 1 to 10, wherein the pressure-sensitive adhesive film has a haze of 15% or less.

[Claim 12]

The pressure-sensitive adhesive film according to any one of claims 1 to 11, wherein the pressure-sensitive adhesive layer contains an acrylic pressure-sensitive adhesive.

[Claim 13]

The pressure-sensitive adhesive film according to any one of claims 1 to 12, wherein the pressure-sensitive adhesive film is bonded to a foldable member.

[Claim 14]

The pressure-sensitive adhesive film according to claim 13, wherein the foldable member is an OLED.

[Claim 15]

The pressure-sensitive adhesive film according to any one

of claims 1 to 14, wherein the pressure-sensitive adhesive film is bonded to a rollable member.

[Claim 16]

The pressure-sensitive adhesive film according to claim 15, wherein the rollable member is an OLED.

[Claim 17]

A foldable device, comprising the pressure-sensitive adhesive film of any one of claims 1 to 12.

[Claim 18]

A rollable device, comprising the pressure-sensitive adhesive film of any one of claims 1 to 12.