CLAIMS

1. A one-side-protected polarizing film, comprising:

a polarizer;

a transparent protective film provided on only one surface of the polarizer; and

a transparent resin layer provided on another surface of the polarizer, wherein

the polarizer comprises a polyvinyl alcohol-based resin, has a thickness of 10 μm or less, and is designed to have a single-body transmittance T and a polarization degree P representing optical properties satisfying the condition of the following formula: $P > -(10^{0.929T - 42.4} - 1) \times 100$ (provided that $T < 42.3$) or $P \geq 99.9$ (provided that $T \geq 42.3$),

the transparent resin layer has a thickness of 0.2 μm or more and is a product made from a layer-forming material comprising a polyvinyl alcohol-based resin, and

the transparent resin layer is not stretched.

2. The one-side-protected polarizing film according to claim 1, wherein the transparent resin layer has a heat of crystal fusion of 30 mJ/mg or more.

3. The one-side-protected polarizing film according to claim 1 or 2, wherein the transparent resin layer has the thickness of less than 3 μm.

4. The one-side-protected polarizing film according to any one of claims 1 to 3, wherein the polyvinyl alcohol-based resin forming the the transparent resin layer has a saponification degree of 99.0% or more and an average degree of polymerization of 1,000 or more.

5. The one-side-protected polarizing film according to any one of claims 1 to 4, wherein the layer-forming material is free of any curable component.

6. The one-side-protected polarizing film according to any one of claims 1 to 5, wherein the polyvinyl alcohol-based resin forming the the transparent resin layer is a polyvinyl alcohol resin.

7. The one-side-protected polarizing film according to any one of claims 1 to 6, wherein the polarizer contains 25% by weight or less of boric acid based on the total weight of the polarizer.

8. A method for producing the one-side-protected polarizing film according to any one of claims 1 to 7, wherein the one-side-protected polarizing film, comprising:

a polarizer;

a transparent protective film provided on only one surface of the polarizer; and

a transparent resin layer provided on another surface of the polarizer, wherein

the polarizer comprises a polyvinyl alcohol-based resin, has a thickness of 10 μm or less, and is designed to have a single-body transmittance T and a polarization degree P representing optical properties satisfying the condition of the following formula: $P > -(10^{0.929T - 42.4} - 1) \times 100$ (provided that $T < 42.3$) or $P \geq 99.9$ (provided that $T \geq 42.3$),

the transparent resin layer has a thickness of 0.2 μm or more and is a product made from a layer-forming material comprising a polyvinyl alcohol-based resin, and

the method comprises the step of forming the transparent resin layer by applying the layer-forming material on the another surface of the polarizer directly.

9. A pressure-sensitive-adhesive-layer-attached polarizing film comprising: the one-side-protected polarizing film according to any one of claims 1 to 7; and a pressure-sensitive adhesive layer.

10. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 9, wherein the pressure-sensitive adhesive layer is provided on the transparent resin layer of the one-side-protected polarizing film.

11. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 9, wherein the pressure-sensitive adhesive layer is provided on the transparent protective film of the one-side-protected polarizing film.

12. The pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 9 to 11, further comprising a separator provided on the pressure-sensitive adhesive layer.

13. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 12, which is in the form of a roll.

14. An image display device comprising the one-side-protected polarizing film according to any one of claims 1 to 7 or the

pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 9 to 11.

15. A method for continuously producing an image display device, the method comprising the steps of:

unwinding the pressure-sensitive-adhesive-layer-attached polarizing film from the roll of the pressure-sensitive-adhesive-layer-attached polarizing film according to claim 13;

feeding the pressure-sensitive-adhesive-layer-attached polarizing film with the separator; and

continuously bonding the pressure-sensitive-adhesive-layer-attached polarizing film to a surface of an image display panel with the pressure-sensitive adhesive layer interposed therebetween.