CLAIMS

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

a polarizer; and

a protective film or films provided on only one surface of the polarizer, wherein

a transparent resin layer, which is unstretched, is provided directly on a surface of the polarizer opposite to the only one surface of the polarizer on which the protective film or films are provided;

the polarizer comprises a polyvinyl alcohol-based resin 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 $T \geq 42.3$), and

the polarizer and the transparent resin layer have a thickness X (μm) and a thickness Y (μm), respectively, satisfying $X \leq 12$, $Y \leq 15$, and $0.15 \leq (Y/X) \leq 3$.

2. The one-side-protected polarizing film according to claim 1, wherein the transparent resin layer has an 80°C compressive elastic modulus of 0.1 GPa or more.

3. The one-side-protected polarizing film according to claim 1 or 2, wherein the transparent resin layer is made from

an ultraviolet-curable acryl-based resin, an ultraviolet-curable epoxy-based resin, a urethane-based resin, or a polyvinyl alcohol-based resin.

4. The one-side-protected polarizing film according to any one of claims 1 to 3, further comprising an adhesive layer between the polarizer and the protective film.

5. The one-side-protected polarizing film according to claim 4, wherein the adhesive layer has a thickness of 0.1 μm to 5 μm.

6. The one-side-protected polarizing film according to claim 4 or 5, wherein the adhesive layer has an 80°C compressive elastic modulus of 0.1 GPa to 10 GPa.

7. The one-side-protected polarizing film according to any one of claims 4 to 6, wherein the adhesive layer is made from an ultraviolet-curable acryl-based resin, an ultraviolet-curable epoxy-based resin, a urethane-based resin, or a polyvinyl alcohol-based resin.

8. The one-side-protected polarizing film according to any one of claims 1 to 7, wherein the protective film is one sheet and has a thickness of 10 μm to 100 μm.

9. The one-side-protected polarizing film according to any one of claims 1 to 7, wherein the protective films are two sheets each with a thickness of 10 μm or more, the protective films have a total thickness of 100 μm or less, and an adhesive layer or a pressure-sensitive adhesive layer is provided between the protective films.

10. The one-side-protected polarizing film according to any one of claims 1 to 9, wherein the polarizer contains 25% by weight or less of boric acid based on the total weight of the polarizer.

11. A pressure-sensitive-adhesive-layer-attached polarizing film comprising: the one-side-protected polarizing film according to any one of claims 1 to 10; and a pressure-sensitive adhesive layer.

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

13. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 11, wherein the pressure-sensitive adhesive layer is provided on the protective

film of the one-side-protected polarizing film.

14. The pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 11 to 13, wherein the pressure-sensitive adhesive layer has a thickness of 1 μm to 40 μm.

15. The pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 11 to 14, wherein the pressure-sensitive adhesive layer has a storage modulus of 1.0×10^4 Pa or more at 23°C.

16. The pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 11 to 15, further comprising a separator provided on the pressure-sensitive adhesive layer.

17. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 16, which is in the form of a roll.

18. An image display device comprising the one-side-protected polarizing film according to any one of claims 1 to 10 or the pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 11 to 15.

19. 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 17;

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.