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 layer provided directly 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 layer has an 80°C compressive elastic modulus of 0.1 GPa or more,

the transparent layer is not stretched.

2. The one-side-protected polarizing film according to claim 1, wherein the transparent layer is a product formed from a resin material.

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

4. The one-side-protected polarizing film according to any one of claims 1 to 3, wherein the polarizer contains 25% by weight or less of boric acid based on the total weight of the polarizer.

5. A method for producing the one-side-protected polarizing film according to any one of claims 1 to 4, 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 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 layer has an 80°C compressive elastic modulus of 0.1 GPa or more, and

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

6. A pressure-sensitive-adhesive-layer-attached polarizing film comprising: the one-side-protected polarizing film according to any one of claims 1 to 4; and a pressure-sensitive adhesive layer.

7. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 6, wherein the pressure-sensitive adhesive layer is provided on the transparent layer of the one-side-protected polarizing film.

8. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 6, wherein the pressure-sensitive adhesive layer is provided on the transparent protective film of the one-side-protected polarizing film.

9. The pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 6 to 8, further comprising a separator provided on the pressure-sensitive adhesive layer.

10. The pressure-sensitive-adhesive-layer-attached polarizing film according to claim 9, which is in the form of a roll.

11. An image display device comprising the one-side-protected polarizing film according to any one of claims 1 to 4 or the pressure-sensitive-adhesive-layer-attached polarizing film according to any one of claims 6 to 8.

12. 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 10;

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.