

CLAIMS

1. A protective film-forming film,
wherein the light transmittance at a wavelength of 1600 nm is 25% or greater and 90% or less, and
the light transmittance at a wavelength of 550 nm is 20% or less.
2. The protective film-forming film according to claim 1, wherein the protective film-forming film is a single layer formed of an uncured curable adhesive.
3. The protective film-forming film according to claim 2, wherein the curable adhesive contains a colorant and a filler having an average particle diameter of 0.01 μm to 3 μm .
4. The protective film-forming film according to any one of claims 1 to 3, which contains a colorant in a range of 0.05 to 0.75% by mass.
5. A sheet for forming a protective film, comprising:
the protective film-forming film according to any one of claims 1 to 4; and
a release sheet which is laminated on one or both surfaces of the protective film-forming film.
6. A composite sheet for forming a protective film, comprising:
an adhesive sheet which is formed by laminating a pressure sensitive adhesive layer on one surface side of a base material; and
a protective film-forming film which is laminated on the pressure sensitive adhesive layer side of the adhesive sheet,
wherein the light transmittance at a wavelength of 1600 nm of the protective film-forming film is 25% or greater and 90% or less, and
the light transmittance at a wavelength of 550 nm of the protective film-forming film is 10% or less.
7. The composite sheet for forming a protective film according to claim 6, wherein the protective film-forming film is a single layer formed of an uncured curable adhesive.
8. The composite sheet for forming a protective film according to claim 7, wherein the curable adhesive contains a colorant and a filler having an average particle diameter of 0.01 μm to 3 μm .
9. The composite sheet for forming a protective film according to any one of claims 6 to 8, which contains a colorant in a range of 0.05 to 0.75% by mass.
10. An inspection method comprising:

producing a workpiece provided with a protective film by forming a protective film on a workpiece using the protective film-forming film according to any one of claims 1 to 4, the sheet for forming a protective film according to claim 5, or the composite sheet for forming a protective film according to any one of claims 6 to 9; and

performing inspection on the workpiece provided with a protective film or a manufactured product obtained by processing the workpiece provided with a protective film through the protective film using infrared rays.

11. The inspection method according to claim 10, wherein the workpiece is a semiconductor wafer, and the manufactured product is a semiconductor chip.

12. A workpiece provided with a protective film which is determined as a non-defective product based on the inspection method according to claim 10 or 11.

13. A manufactured product which is determined as a non-defective product based on the inspection method according to claim 10 or 11.