[Claims]

[Claim 1]

A pressure-sensitive adhesive sheet comprising a support substrate and a pressure-sensitive adhesive layer laminated on at least one side of the support substrate, wherein

the pressure-sensitive adhesive layer has a thickness of 3 μm or more but less than 100 μm;

the support substrate has a thickness of 30 μm or more, the thickness of the support substrate is 1.1 times or more but 10 times or less of the thickness of the pressure-sensitive adhesive layer;

a relationship between an elastic modulus Et' [MPa] of the pressure-sensitive adhesive sheet and a thickness Ts [mm] of the support substrate fulfils the following formula: $0.1\ [N \cdot mm] < Et' \times (Ts)^3$;

a pressure-sensitive adhesive strength N2 (herein, the pressure-sensitive adhesive strength N2 is a pressure-sensitive adhesive strength after the pressure-sensitive adhesive layer is attached to a stainless steel plate (SUS304BA plate) and heated at 80°C for 5 minutes) is 20 times or more of a pressure-sensitive adhesive strength N1 (herein, the pressure-sensitive adhesive strength N1 is a pressure-sensitive adhesive strength after the pressure-sensitive adhesive layer is attached to a stainless steel plate (SUS304BA plate) and left at 23°C for 30 minutes);

the pressure-sensitive adhesive layer contains an acrylic polymer Pa as a base polymer, the acrylic polymer Pa having a glass transition temperature of 0°C or lower; and

monomer components for preparation of the acrylic polymer Pa include both an N-vinyl cyclic amide and a hydroxy group-containing monomer as copolymerisable monomer units.

[Claim 2]

The pressure-sensitive adhesive sheet according to claim 1, wherein the pressure-sensitive adhesive strength N1 is 1.0 N/20 mm or less and the pressure-sensitive adhesive strength N2 is 5.0 N/20 mm or more.

[Claim 3]

The pressure-sensitive adhesive sheet according to claim 1 or 2, wherein the pressure-sensitive adhesive strength N1 is 0.2 N/20 mm or more but 1.0 N/20 mm or less.

[Claim 4]

The pressure-sensitive adhesive sheet according to any one of claims 1 to 3, having the elastic modulus Et' of 1000 MPa or more.

[Claim 5]

The pressure-sensitive adhesive sheet according to any one of claims 1 to 4, wherein the pressure-sensitive adhesive layer is formed with a pressure-sensitive adhesive containing a pressure-sensitive adhesive strength rise retarder.

[Claim 6]

The pressure-sensitive adhesive sheet according to any one of claims 1 to 5, wherein

the pressure-sensitive adhesive layer contains a siloxane structure-containing polymer Ps, and

the siloxane structure-containing polymer Ps is a copolymer of a monomer having a polyorganosiloxane skeleton and a (meth)acrylic monomer.

[Claim 7]

The pressure-sensitive adhesive sheet according to claim 6, wherein the siloxane structure-containing polymer Ps has a weight average molecular weight of 1×10^4 or more but less than 5×10^4.

[Claim 8]

The pressure-sensitive adhesive sheet according to claim 6 or 7, wherein

the siloxane structure-containing polymer Ps is contained at 0.1 parts by weight or more but less than 10 parts by weight relative to 100 parts by weight of the acrylic polymer Pa.