CLAIMS

Claim 1

A pressure-sensitive adhesive layer being formed from a pressure-sensitive adhesive and having a residual stress of 0.1 to 6 N/cm^2 after 300-percent tensile deformation, the pressure-sensitive adhesive comprising an acrylic polymer,

the acrylic polymer derived from monomer components including:

a (meth)acrylic alkyl ester having a C_1-C_5 alkyl moiety at an ester end;

a hydroxy-containing monomer; and

an alicyclic structure-containing monomer,

the alicyclic structure-containing monomer being at least one selected from the group consisting of:

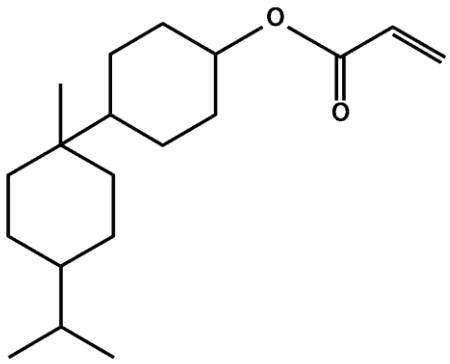
cyclohexyl (meth)acrylate;

a compound represented by Formula (1);

a compound represented by Formula (2); and

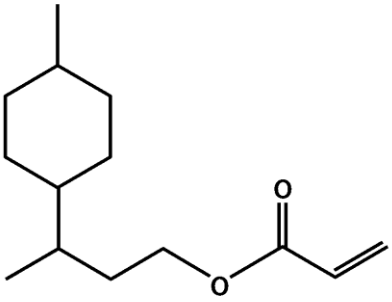
a compound represented by Formula (3), Formulae (1), (2), and (3) expressed as follows:

[Chem. 1]



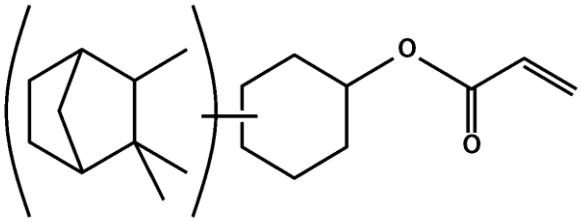
(1)

[Chem. 2]



(2)

[Chem. 3]



(3)

the monomer components to form the acrylic polymer including, relative to the totality of the monomer components:

~~40~~45 to 82 mass percent of the (meth)acrylic alkyl ester having a C_1-C_5 alkyl moiety at the ester end;

17 to 35 mass percent of the hydroxy-containing

monomer; and

42 mass percent or less of the alicyclic structure-containing monomer.

Claim 2

The pressure-sensitive adhesive layer according to claim 1,

which has a storage modulus of 7.0×10^4 Pa or less at 70°C.

Claim 3

The pressure-sensitive adhesive layer according to one of claims 1 and 2,

which has a gel fraction of 30 to 85 mass percent.

Claim 4

The pressure-sensitive adhesive layer according to any one of claims 1 to 3,

which has a b* value of 2.0 or less after an ultraviolet irradiation test,

where, in the ultraviolet irradiation test,

the pressure-sensitive adhesive layer is prepared to a thickness of 250 μm; is placed between two plies of alkali glass to give a test specimen; the test specimen is irradiated with ultraviolet radiation from a xenon arc lamp

at wavelengths in a range of 300 to 400 nm, an illuminance of 110 W/m^2, and a black panel preset temperature of 83°C for 240 hours; and the b* value of the resulting pressure-sensitive adhesive layer is measured.

Claim 5

The pressure-sensitive adhesive layer according to any one of claims 1 to 4,

wherein the monomer components to form the acrylic polymer further include a multifunctional monomer.

Claim 6

The pressure-sensitive adhesive layer according to claim 5,

wherein the monomer components to form the acrylic polymer include the multifunctional monomer in a content of 3 mass percent or less of the totality of the monomer components.

Claim 7

The pressure-sensitive adhesive layer according to any one of claims 1 to 6,

which is used in or for an optical member or members.

Claim 8

A pressure-sensitive adhesive sheet comprising:

a substrate; and

the pressure-sensitive adhesive layer according to any one of claims 1 to 7 on at least one side of the substrate.