Claims

1. A photocurable pressure sensitive adhesive sheet comprising a pressure sensitive adhesive composition deposited in a layer-form, wherein

the pressure sensitive adhesive composition contains a base polymer having a crosslinked structure, a photopolymerizable polyfunctional compound having two or more photopolymerizable functional groups per molecule, a photopolymerization initiator, and an ultraviolet absorber,

the pressure sensitive adhesive sheet having a light transmittance of 85% or more at a wavelength of 420 nm, a light transmittance of 80% or more at a wavelength of 405 nm, ~~and~~ a light transmittance of 4 to 25% at a wavelength of 380 nm, and a value εw of 10 to 100,

wherein

w is a weight parts content of the photopolymerization initiator based on 100 parts by weight of the base polymer, ε is a light absorption coefficient of the photopolymerization initiator at a wavelength of 380 nm, wherein unit of ε is $mLg^{-1}cm^{-1}$, and the εw is product of w and ε.

2. The pressure sensitive adhesive sheet according to claim 1, having a light transmittance of 1% or less at a wavelength of 365 nm.

3. The pressure sensitive adhesive sheet according to claim 1 or 2, wherein the photopolymerization initiator has a light absorption coefficient of 50 [$mLg^{-1}cm^{-1}$] or less at a wavelength of 405 nm and a light absorption coefficient of 80 [$mLg^{-1}cm^{-1}$] or more at a wavelength of 380 nm.

4. The pressure sensitive adhesive sheet according to any one of claims 1 to 3, wherein the photopolymerization initiator has an absorption maximum in the wavelength range of 310 nm to 370 nm.

5. The pressure sensitive adhesive sheet according to any one of claims 1 to 4, wherein a content of the photopolymerization initiator is 0.05 to 1 part by weight

based on 100 parts by weight of the base polymer.

~~6. The pressure sensitive adhesive sheet according to any one of claims 1 to 5, wherein a value of εw is 10 to 100,~~
~~wherein~~
~~w is a weight parts content of the photopolymerization initiator based on 100 parts by weight of the base polymer,~~
~~ε is a light absorption coefficient of the photopolymerization initiator at a wavelength of 380 nm, wherein unit of ε is $mLg^{-1}cm^{-1}$, and~~
~~the εw is product of w and ε.~~

~~7~~6. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~6~~5, wherein a value of εwT is 100 to 1200,
wherein
T is a percent light transmittance of the pressure sensitive adhesive sheet at a wavelength of 380 nm,
w is a weight parts content of the photopolymerization initiator based on 100 parts by weight of the base polymer,
ε is a light absorption coefficient of the photopolymerization initiator at a wavelength of 380 nm, wherein unit of ε is $mLg^{-1}cm^{-1}$, and
the εwT is product of T, w and ε.

~~8~~7. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~7~~6, wherein the ultraviolet absorber is at least one selected ~~form~~ from triazine-based compounds and benzotriazole-based compounds.

~~9~~8. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~8~~7, wherein the base polymer includes an acryl-based polymer.

~~10~~9. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~9~~8, wherein the base polymer includes a hydroxy group-containing component as a monomer unit, and an isocyanate crosslinker is bonded to the hydroxy group of the hydroxy group-containing component.

~~11~~10. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~10~~9, wherein the photopolymerizable polyfunctional compound is a polyfunctional (meth)acrylate.

~~12~~11. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~11~~10, wherein a content of the photopolymerizable polyfunctional compound is 0.3 to 10 parts by weight based on 100 parts by weight of the base polymer.

~~13~~12. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~12~~11, wherein a gel fraction is 30 to 80%.

~~14~~13. The pressure sensitive adhesive sheet according to any one of claims 1 to ~~13~~12, wherein a gel fraction of the pressure sensitive adhesive sheet after the

pressure sensitive adhesive sheet is photocured by application of an ultraviolet ray at 1000 mJ/cm^2 is higher by 5% or more than a gel fraction before the photocuring.

~~15~~14.A pressure sensitive adhesive-equipped optical film, comprising:

an optical film;

a first pressure sensitive adhesive sheet stacked on a first principal surface of the optical film;

and a second pressure sensitive adhesive sheet stacked on a second principal surface of the optical film, wherein

the first pressure sensitive adhesive sheet is the pressure sensitive adhesive sheet according to any one of claims 1 to ~~14~~13.

~~16~~15.A method for manufacturing an image display device including a transparent member having a level difference portion arranged on a viewing-side surface,

the method comprising

bonding the pressure sensitive adhesive sheet according to any one of claims 1 to ~~14~~13 and the transparent member, and then

irradiating the pressure sensitive adhesive sheet with an active ray to photocure the pressure sensitive adhesive composition in the pressure sensitive adhesive sheet.