Claims

[Claim 1]

An adhesive layer for a flexible image display device constituent member, the adhesive layer satisfying requirements [I] to [V],

wherein

the adhesive layer for a flexible image display device constituent member is formed of a resin composition containing a polymer (A), a crosslinking agent (B), and a polymerization initiator (C),

the polymer (A) contains a copolymer composed of a compound in which 50 mass% or more of monomer components contain a (meth)acryloyl group,

the crosslinking agent (B) contains a crosslinking agent having three or more functional groups, and

the polymerization initiator (C) contains a cleavage-type photopolymerization initiator:

[I] a shear storage modulus of elasticity at -20°C (G'(-20°C)) is 300 kPa or less;

[II] a shear storage modulus of elasticity at 85°C (G'(85°C)) is 5.0 kPa or more and 30 kPa or less;

[III] a gel fraction is 45% or more and 95% or less;

[IV] an adhesive strength to a polyethylene terephthalate substrate at 23°C is 5.0 N/cm or more; and

[V] a recovery rate calculated by the following equation from a maximum strain ($\gamma_{max(25)}$) after setting a thickness of the adhesive layer to 0.5 to 1.2 mm

and applying a pressure of 10 kPa at a temperature of 25°C for 600 seconds and a strain ($\gamma_{min(25)}$) 600 seconds after unloading the stress is 70% or more:

Recovery rate (%) = $[(\gamma_{max(25)} - \gamma_{min(25)})/\gamma_{max(25)}] \times 100$.

[Claim 2]

The adhesive layer for a flexible image display device constituent member according to claim 1, wherein the adhesive layer for a flexible image display device constituent member has an adhesive strength to a glass substrate at 23°C of 4.5 N/cm or more.

[Claim 3]

The adhesive layer for a flexible image display device constituent member according to claim 1 or 2, wherein the adhesive layer for a flexible image display device constituent member has a maximum strain ($\gamma_{max(25)}$) of 600% or less after setting a thickness of the adhesive layer to 0.5 to 1.2 mm and applying a pressure of 10 kPa at a temperature of 25°C for 600 seconds.

[Claim 4]

The adhesive layer for a flexible image display device constituent member according to any one of claims 1 to 3, wherein a glass transition temperature (Tg) of the adhesive layer for a flexible image display device constituent member, defined by a maximum value of Tanδ as obtained by dynamic viscoelasticity measurement in a shear mode at a frequency of 1 Hz, is -15°C or lower.

[Claim 5]

An adhesive layer for a flexible image display device constituent member with a release film, having a laminated structure of one or more release films and the adhesive layer for a flexible image display device constituent member according to any one of claims 1 to 4.

[Claim 6]

A laminate comprising:

one or more image display device members; and

the adhesive layer for a flexible image display device constituent member according to any one of claims 1 to 4.

[Claim 7]

A laminate comprising:

two image display device constituent members; and

the adhesive layer for a flexible image display device constituent member according to any one of claims 1 to 4 interposed between the two image display device constituent members.

[Claim 8]

The laminate according to claim 7, wherein one of the two image display device constituent members is a surface protection panel, and the other is a member formed of any one or a combination of two or more selected from the group consisting of a touch sensor film, an image display panel, a color filter, a polarizing element, and a retardation film.

[Claim 9]

An image display device comprising the laminate according to any one of claims 6 to 8.

[Claim 10]

The image display device according to claim 9, wherein the image display device is a flexible image display device.