Claims

[Claim 1] An optical laminate, comprising:

a UV-absorbing adhesion layer;

a protective layer;

a polarizer; and

a retardation layer,

wherein the retardation layer contains a liquid crystal compound, the liquid crystal compound containing a polymer obtained by polymerizing a liquid crystal monomer thereby fixing an alignment state of the liquid crystal monomer,

wherein the UV-absorbing adhesion layer and the polarizer are arranged on a viewer side with respect to the retardation layer,

wherein the UV-absorbing adhesion layer, the protective layer, and the polarizer are arranged in the stated order, and

wherein the UV-absorbing adhesion layer contains a base polymer, a UV absorber, and a dye compound whose absorption spectrum has a maximum absorption wavelength present in a wavelength region of from 380 nm to 430 nm, wherein the polarizer has a thickness of 15 μm or less.

[Claim 2] The optical laminate according to claim 1, wherein the base polymer is a (meth)acrylic polymer.

[Claim 3] The optical laminate according to claim 1 or 2, wherein an absorption spectrum of the UV absorber has a maximum absorption

wavelength present in a wavelength region of from 300 nm to 400 nm.

[Claim 4] The optical laminate according to any one of claims 1 to 3, wherein the UV-absorbing adhesion layer has an average transmittance of 5% or less at a wavelength of from 300 nm to 400 nm, has an average transmittance of 30% or less at a wavelength of from 400 nm to 430 nm, has an average transmittance of 70% or more at a wavelength of from 450 nm to 500 nm, and has an average transmittance of 80% or more at a wavelength of from 500 nm to 780 nm.

~~[Claim 5] The optical laminate according to any one of claims 1 to 4, wherein the UV-absorbing adhesion layer, the protective layer, and the polarizer are arranged in the stated order.~~

[Claim ~~6~~5] The optical laminate according to any one of claims 1 to ~~5~~4, wherein the retardation layer has an in-plane retardation Re(550) of from 120 nm to 160 nm,

where Re(550) represents an in-plane retardation measured at 23°C with light having a wavelength of 550 nm.

[Claim ~~7~~6] The optical laminate according to any one of claims 1 to ~~5~~4,

wherein the retardation layer includes a first retardation

layer and a second retardation layer,

wherein at least one of the first retardation layer or the second retardation layer contains the liquid crystal compound, and

wherein the UV-absorbing adhesion layer is arranged on the viewer side with respect to the retardation layer containing the liquid crystal compound out of the first retardation layer and the second retardation layer.

[Claim ~~8~~7] The optical laminate according to claim ~~7~~6, wherein the UV-absorbing adhesion layer, the protective layer, the polarizer, the first retardation layer, and the second retardation layer are arranged in the stated order from the viewer wide.

[Claim ~~9~~8] The optical laminate according to claim ~~7~~6, wherein the UV-absorbing adhesion layer, the first protective layer, the polarizer, the second protective layer, the first retardation layer, and the second retardation layer are arranged in the stated order from the viewer wide.

~~[Claim 10] The optical laminate according to claim 7, wherein the protective layer, the polarizer, the UV-absorbing adhesion layer, the first retardation layer, and the second retardation layer are arranged in the stated order from the viewer wide.~~

~~[Claim 11] The optical laminate according to claim 7, wherein the~~

~~first protective layer, the polarizer, the second protective layer, the UV-absorbing adhesion layer, the first retardation layer, and the second retardation layer are arranged in the stated order from the viewer wide.~~

[Claim ~~12~~9] The optical laminate according to any one of claims ~~7~~6 to ~~11~~8, wherein the first retardation layer has an in-plane retardation Re(550) of from 240 nm to 320 nm,

where Re(550) represents an in-plane retardation measured at 23°C with light having a wavelength of 550 nm.

[Claim ~~13~~10] The optical laminate according to any one of claims ~~7~~6 to ~~12~~9, wherein the second retardation layer has an in-plane retardation Re(550) of from 120 nm to 160 nm,

where Re(550) represents an in-plane retardation measured at 23°C with light having a wavelength of 550 nm.

[Claim 11] The optical laminate according to any one of claims 1 to 10, wherein the UV absorber contains a triazine-based ultraviolet absorber, and the dye compound contains an indole-based compound.

[Claim 12] The optical laminate according to any one of claims 1 to 10, wherein the UV absorber contains a benzotriazole-based ultraviolet absorber, and the dye compound contains a cinnamic acid-based compound.

[Claim 13] The optical laminate according to any one of claims 1 to 10, wherein the UV absorber contains a triazine-based ultraviolet absorber, and the dye compound contains a porphyrin-based compound.

[Claim 14] An organic EL display apparatus, comprising the optical laminate of any one of claims 1 to 13.