Claims

[Claim 1] A retardation plate having:

in-plane retardations Re that satisfy relationships of 100 nm≤Re(550)≤160 nm, Re(450)/Re(550)≤1, and Re(650)/Re(550)≥1; and

Nz coefficients that satisfy relationships of Nz(550)<1, 0≤|Nz(450)-Nz(550)|≤0.1, and 0≤|Nz(650)-Nz(550)|≤0.1,

where Re(450), Re(550), and Re(650) represent in-plane retardations measured at 23°C with light having wavelengths of 450 nm, 550 nm, and 650 nm, respectively, and Nz(450), Nz(550), and Nz(650) represent Nz coefficients determined from the equation Nz = Rth/Re, whereby Rth and Re represent respectively, thickness direction retardation and in-plane retardation measured at 23°C with light having wavelengths of 450 nm, 550 nm, and 650 nm, respectively.

[Claim 2] The retardation plate according to claim 1,

wherein the retardation plate has a laminated structure in which a first retardation layer and a second retardation layer are laminated,

wherein the first retardation layer has in-plane retardations Re that satisfy relationships of Re(450)/Re(550)≤1 and Re(650)/Re(550)≥1, and has a refractive index characteristic of satisfying a relationship of nx>ny≥nz, and

wherein the second retardation layer has thickness direction retardations Rth that satisfy relationships of Rth(450)/Rth(550)≤1

and Rth(650)/Rth(550)≥1, and has a refractive index characteristic of satisfying a relationship of nz>nx≥ny,

where Rth(450), Rth(550), and Rth(650) represent thickness direction retardations measured at 23°C with light having wavelengths of 450 nm, 550 nm, and 650 nm, respectively.

[Claim 3] A polarizing plate, comprising:

an optical compensation layer formed of the retardation plate of claim 1 or 2; and

a polarizer,

wherein an angle formed by a slow axis of the optical compensation layer and an absorption axis of the polarizer is from 35° to 55°.

[Claim 4] The polarizing plate according to claim 3, further comprising a conductive layer on an opposite side of the optical compensation layer to the polarizer.

[Claim 5] An image display apparatus, comprising the polarizing plate of claim 3.

[Claim 6] An image display apparatus with a touch panel, comprising the polarizing plate of claim 4, wherein the conductive layer is configured to function as a touch panel sensor.