60°, the specular gloss value at 75°, and the specular gloss value at 85° is 7.5% or less.

[0011a]

In an aspect, there is provided a low reflective film comprising at least a first resin layer, wherein

the first resin layer comprises at least a binder resin, and an organic resin particle having an average particle size D_{50} of 2 to 14 μm, and

a surface of the first resin layer has a reflectance and gloss values satisfying the following relationships;

(1) regular reflectance at 70 degrees: 0.0% or more and 2.5% or less (wavelength 550 nm)

(2) specular gloss value at 60 degrees: 0.0% or more and 6.0% or less

specular gloss value at 75 degrees: 0.0% or more and 6.0% or less

specular gloss value at 85 degrees: 0.0% or more and 6.0% or less, and

(3) a sum of a specular gloss value at 20°, a specular gloss value at 45°, the specular gloss value at 60°, the specular gloss value at 75°, and the specular gloss value at 85° is 7.5% or less.

[0012]

[2] The low reflective film according to [1], wherein the organic resin particle has an average particle size D_{50} of 5 to 20 μm.

[3] The low reflective film according to [1] or [2], wherein a content rate of the organic resin particle to the binder resin is 0.6 to 2.5.

[4] The low reflective film according to any one of [1] to [3], wherein the first resin layer has a thickness of 0.5 to 8.0 times of an average particle size D_{50} of the organic resin particle comprised in the first resin layer.

[5] The low reflective film according to any one of [1] to [4], having an optical density of 0.5 or more.

[6] The low reflective film according to any one of [1] to [5], wherein the first resin layer further comprises carbon black.

[0013]

[7] The low reflective film according to any one of [1] to [6], having a laminated structure comprising at least the first resin layer and a pressure-sensitive adhesive layer in the listed order.

[8] The low reflective film according to any one of [1] to [7], having a laminated structure comprising at

[14] The optical sensing kit according to [13], wherein the organic resin particle has an average particle size D_{50} of 5 to 20 μm.

[15] The optical sensing kit according to [13] or [14], wherein the interior part corresponds to one or more selected from the group consisting of a resin molded product, a multi-layered laminated product using the resin molded product, a non-woven fabric, and a skin material.

The reflective film for use in the optical sensing kit according to [13] or [14] preferably further has any one or more technical features of [3] to [12].

[0014a]

In another aspect, there is provided an optical sensing kit comprising at least

an optical sensor which is disposed in an inside of a room of a moving vehicle and which images an outside of the room of the moving vehicle or detects visible light or infrared light in the outside of the room through a window transparent to visible light or infrared light, and

a low reflective film which covers a surface of an interior part disposed in the inside of the room and which reduces reflected light of external light on the surface to thereby allow the optical sensor to be enhanced in imaging accuracy and/or detection accuracy, wherein

the low reflective film is the low reflective film as defined above.

[0015]

[16] In another aspect, there is provided a low reflective molded product which covers a surface of an article, wherein the low reflective molded product includes at least a binder resin, and an organic resin particle having an average particle size D_{50} of 2 to 20 μm, and at least one surface of the low reflective molded product has a reflectance and gloss values satisfying the following relationships:

(1) regular reflectance at 70 degrees: 0.0% or more and 2.5% or less (wavelength 550 nm)

(2) specular gloss value at 60 degrees: 0.0% or more and 6.0% or less

specular gloss value at 75 degrees: 0.0% or more and 6.0% or less

[Document Name] Claims

[Claim 1]

A low reflective film comprising at least a first resin layer, wherein

the first resin layer comprises at least a binder resin, and an organic resin particle having an average particle size D_{50} of 2 to 14 μm, and

a surface of the first resin layer has a reflectance and gloss values satisfying the following relationships;

(1) regular reflectance at 70 degrees: 0.0% or more and 2.5% or less (wavelength 550 nm)

(2) specular gloss value at 60 degrees: 0.0% or more and 6.0% or less

specular gloss value at 75 degrees: 0.0% or more and 6.0% or less

specular gloss value at 85 degrees: 0.0% or more and 6.0% or less, and

(3) a sum of a specular gloss value at 20°, a specular gloss value at 45°, the specular gloss value at 60°, the specular gloss value at 75°, and the specular gloss value at 85° is 7.5% or less.

[Claim 2]

The low reflective film according to claim 1, wherein the organic resin particle has an average particle size D_{50} of 5 to 20 μm.

[Claim 3]

The low reflective film according to claim 1 or 2, wherein a content rate of the organic resin particle to the binder resin is 0.6 to 2.5.

[Claim 4]

The low reflective film according to any one of claims 1 to 3, wherein the first resin layer has a thickness T of 0.5 to 8.0 times of an average particle size D_{50} of the organic resin particle comprised in the first resin layer.

[Claim 5]

The low reflective film according to any one of claims 1 to 4, having an optical density of 0.5 or more.

[Claim 6]

The low reflective film according to any one of claims 1 to 5, wherein the first resin layer further comprises carbon black.

[Claim 7]

The low reflective film according to any one of claims 1 to 6, having a laminated structure comprising at least the first resin layer and a pressure-sensitive adhesive layer in the listed order.

[Claim 8]

The low reflective film according to any one of claims 1 to 7, having a laminated structure comprising at least the first resin layer and a substrate film in the listed order.

[Claim 9]

The low reflective film according to any one of claims 1 to 8, having a laminated structure comprising at least the first resin layer, a substrate film, and a pressure-sensitive adhesive layer in the listed order.

[Claim 10]

The low reflective film according to any one of claims 1 to 9, having a laminated structure comprising at least the first resin layer, a substrate film, a second resin layer, and a pressure-sensitive adhesive layer in the listed order.

[Claim 11]

The low reflective film according to any one of claims 7 to 10, wherein the pressure-sensitive adhesive layer comprises one or more pressure-sensitive adhesives selected from the group consisting of a rubber-based pressure-sensitive adhesive, an acrylic pressure-sensitive adhesive, an olefin-based pressure-sensitive adhesive, a silicone-based pressure-sensitive adhesive, and a urethane-based pressure-sensitive adhesive.

[Claim 12]

The low reflective film according to any one of claims 1 to 11, wherein the first resin layer has a surface roughness Ra of 0.8 to 4.0 μm.

[Claim 13]

An optical sensing kit comprising at least

an optical sensor which is disposed in an inside of a room of a moving vehicle and which images an outside of

the room of the moving vehicle or detects visible light or infrared light in the outside of the room through a window transparent to visible light or infrared light, and

a low reflective film which covers a surface of an interior part disposed in the inside of the room and which reduces reflected light of external light on the surface to thereby allow the optical sensor to be enhanced in imaging accuracy and/or detection accuracy, wherein

the low reflective film is the low reflective film according to claim 1.

[Claim 14]

The optical sensing kit according to claim 13, wherein the organic resin particle has an average particle size D_{50} of 5 to 20 μm.

[Claim 15]

The optical sensing kit according to claim 13 or 14, wherein the interior part corresponds to one or more selected from the group consisting of a resin molded product, a multi-layered laminated product using the resin molded product, a non-woven fabric, and a skin material.

[Claim 16]

A low reflective molded product which covers a surface of an article, wherein

the low reflective molded product comprises at least a binder resin, and an organic resin particle having an average particle size D_{50} of 2 to 20 μm, and at least one surface of the low reflective molded product has a reflectance and gloss values satisfying the following relationships;

(1) regular reflectance at 70 degrees: 0.0% or more and 2.5% or less (wavelength 550 nm)

(2) specular gloss value at 60 degrees: 0.0% or more and 6.0% or less

specular gloss value at 75 degrees: 0.0% or more and 6.0% or less

specular gloss value at 85 degrees: 0.0% or more and 6.0% or less, and

(3) a sum of a specular gloss value at 20°, a specular gloss value at 45°, the specular gloss value at 60°, the specular gloss value at 75°, and the specular gloss value at 85° is 7.5% or less.