compound, and teaches that addition of a silane-modified polyolefin improves moldability and achieves an effect of preventing sheet sagging.

On the other hand, the kneadability with polyolefins was found to be inferior when inorganic compounds such as metal oxides are contained in large quantities, and to improve the kneadability, for example, Patent Literature 2 proposes to add 0.1 to 20 parts by mass of a modified polyolefin-based wax to a composition containing 10 to 50 parts by mass of a thermoplastic resin and 50 to 90 parts by mass of a metal oxide.

CITATION LIST

PATENT LITERATURE

[0004]

Patent Literature 1: JP S52(1977)-15542A

Patent Literature 2: WO2017/209215

Patent Literature 3: WO2023/282327

SUMMARY

TECHNICAL PROBLEM

[0005]

However, it was found that with olefin-based resin compositions obtained by adding modified polyolefin-based

waxes, the hydroxyl group density on the surface of the resulting molded article tends to be relatively high, which increases hydrophilicity and gives it a moist texture, and that under certain conditions (such as acid solutions), inorganic compounds may elute, causing a loss of texture.

In such a situation, the applicants of the present application have discovered that a resin composition containing a thermoplastic resin such as polyolefin, a metal oxide, and an unmodified polyolefin-based wax is excellent in non-water absorbency and hard texture, and have proposed this (see Patent Literature 3). However, further improvement from the viewpoint of strength is desired for application to a variety of uses.

[0006]

An object of the present disclosure is to provide an olefin-based resin composition, which does not lead to an increase in hydrophilicity (low water absorbency), has hard texture, has a premium texture closer to earthenware, and is suitable for obtaining a molded article excellent in strength, and a molded article containing the same.

SOLUTION TO PROBLEM

[0007]

The present disclosure relates to, for example, the following items [1] to [15].

[1]

An olefin-based resin composition comprising:

9.7 to 36 parts by mass of an unmodified olefin-based polymer (A),

0.3 to 15 parts by mass of an acid-modified propylene-based polymer (B), and

54 to 90 parts by mass of a metal oxide (C),

provided that a total amount of the unmodified olefin-based polymer (A), the acid-modified propylene-based polymer (B), and the metal oxide (C) is 100 parts by mass; and

0.1 to 10 parts by mass of an unmodified polyolefin-based wax (D), relative to a total of 100 parts by mass of the unmodified olefin-based polymer (A), the acid-modified propylene-based polymer (B), and the metal oxide (C).

[0008]

[2]

The olefin-based resin composition according to [1], wherein the unmodified olefin-based polymer (A) is one or more selected from the group consisting of ethylene-based polymers, propylene-based polymers, 1-butene-based polymers, and 4-methyl-1-pentene-based polymers.

[3]

A container, tableware, or alcoholic drink ware comprising the olefin-based resin composition according to any one of [1] to [7].

[15]

A mouse or keyboard comprising the olefin-based resin composition according to any one of [1] to [7].

[0012a]

In an aspect of the present disclosure, there is provided an olefin-based resin composition comprising:

9.7 to 36 parts by mass of an unmodified olefin-based polymer (A),

0.3 to 15 parts by mass of an acid-modified propylene-based polymer (B), and

54 to 90 parts by mass of a metal oxide (C),

provided that a total amount of the unmodified olefin-based polymer (A), the acid-modified propylene-based polymer (B), and the metal oxide (C) is 100 parts by mass; and

0.1 to 10 parts by mass of an unmodified polyolefin-based wax (D), relative to a total of 100 parts by mass of the unmodified olefin-based polymer (A), the acid-modified propylene-based polymer (B), and the metal oxide (C).

[0012b]

In another aspect of the present disclosure, there is provided a molded article comprising the olefin-based resin composition as disclosed herein.

[0012c]

In another aspect of the present disclosure, there is provided a door handle, door knob, handrail or switch comprising the olefin-based resin composition as disclosed herein.

[0012d]

In another aspect of the present disclosure, there is provided a case comprising the olefin-based resin composition as disclosed herein.

[0012e]

In another aspect of the present disclosure, there is provided a power storage device comprising the olefin-based resin composition as disclosed herein.

[0012f]

In another aspect of the present disclosure, there is provided a fashion accessory comprising the olefin-based resin composition as disclosed herein.

[0012g]

In another aspect of the present disclosure, there is provided stationery comprising the olefin-based resin composition as disclosed herein.

[0012h]

In another aspect of the present disclosure, there is provided a container, tableware, or alcoholic drink ware comprising the olefin-based resin composition as disclosed herein.

[0012i]

In another aspect of the present disclosure, there is provided a mouse or keyboard comprising the olefin-based resin composition as disclosed herein.

Advantageous Effects of Invention

[0013]

An olefin-based resin composition of the present invention has an extremely low water absorption rate and excellent non-water absorption, has cool tactile sensation because it has a thermal conductivity equivalent to that of earthenware, has hard texture, texture closer to that of earthenware, and premium texture, and is suitable for obtaining a molded article excellent in strength such as surface hardness, tensile strength, impact strength, and bending strength. A molded article of the present invention can be suitably applied to a variety of applications, such as door handles, door knobs, handrails or switches, cases for, for example, home appliances, power storage (capacitor)

devices, fashion accessories, containers, stationery, tableware, alcoholic drink ware, and mice or keyboards. It has an extremely low water absorption rate and excellent non-water absorption, has cool tactile sensation, has texture