parts by mass),

wherein the resin composition (X) satisfies the following requirements (a) and (b),

wherein the 4-methyl-1-pentene·α-olefin copolymer (A-1) satisfies the following requirements (c) to (f), and

wherein the inorganic substance (B) is one or more selected from the group consisting of barium sulfate and calcium carbonate:

a requirement (a); having a tan δ peak temperature of 0°C or higher and 60°C or lower, the tan δ peak temperature being obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C;

a requirement (b); having a tan δ peak value of 0.8 or more and 5.0 or less, the tan δ peak value being obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C;

a requirement (c); the copolymer (A-1) comprises 55 to 90% by mol of a constitutional unit (i) derived from 4-methyl-1-pentene and 10 to 45% by mol of a constitutional unit (ii) derived from the α-olefin (excluding 4-methyl-1-pentene) assuming that the total amount of the constitutional unit (i) and the constitutional unit (ii) is 100% by mol;

a requirement (d); the copolymer (A-1) has a melting point (Tm) as measured by a differential scanning calorimeter (DSC) of 160°C or lower, or has no observed melting point (Tm);

a requirement (e); the copolymer (A-1) has a tan δ peak temperature of 15°C or higher and 45°C or lower, the tan δ peak temperature being obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C; and

a requirement (f); the copolymer (A-1) has a tan δ peak value of 0.6 or more and 5.0 or less, the tan δ peak value being obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C.

[0006b]

In a further aspect of the present disclosure, there is provided a molded article comprising the resin composition disclosed herein.

[0006c]

In another aspect of the present disclosure, there is provided a sheet comprising the resin composition disclosed herein.

[0006d]

In a further aspect of the present disclosure, there is provided a toy comprising the resin composition disclosed herein.

[0006e]

In another aspect of the present disclosure, there is provided a daily good comprising the resin composition disclosed herein.

[0006f]

In a further aspect of the present disclosure, there is provided an electronic equipment housing comprising the resin composition disclosed herein.

Technical Problem

[0007]

The above-mentioned materials described in Patent Documents 1 and 2 have a high tan δ peak value at room temperature but may cause problems such as occurrence of stickiness on the surface of a molded article and deterioration in injection moldability due to the viscosity. Therefore, to avoid such problems, each of the materials described in Patent Documents 1 and 2 needs to be made into a

CLAIMS

1. A resin composition (X) comprising:

10 to 50 parts by mass of a 4-methyl-1-pentene·α-olefin copolymer (A-1); and

50 to 90 parts by mass of an inorganic substance (B)

(assuming that the total amount of the 4-methyl-1-pentene·α-olefin copolymer (A-1) and the inorganic substance (B) is 100 parts by mass),

wherein the resin composition (X) satisfies the following requirements (a) and (b),

wherein the 4-methyl-1-pentene·α-olefin copolymer (A-1) satisfies the following requirements (c) to (f), and

wherein the inorganic substance (B) is one or more selected from the group consisting of barium sulfate and calcium carbonate:

a requirement (a); having a tan δ peak temperature of 0°C or higher and 60°C or lower, the tan δ peak temperature being obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C;

a requirement (b); having a tan δ peak value of 0.8 or more and 5.0 or less, the tan δ peak value being obtained by

performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C;

a requirement (c); the copolymer (A-1) comprises 55 to 90% by mol of a constitutional unit (i) derived from 4-methyl-1-pentene and 10 to 45% by mol of a constitutional unit (ii) derived from the α-olefin (excluding 4-methyl-1-pentene) assuming that the total amount of the constitutional unit (i) and the constitutional unit (ii) is 100% by mol;

a requirement (d); the copolymer (A-1) has a melting point (Tm) as measured by a differential scanning calorimeter (DSC) of 160°C or lower, or has no observed melting point (Tm);

a requirement (e); the copolymer (A-1) has a tan δ peak temperature of 15°C or higher and 45°C or lower, the tan δ peak temperature being obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C; and

a requirement (f); the copolymer (A-1) has a tan δ peak value of 0.6 or more and 5.0 or less, the tan δ peak value being obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C.

2. The resin composition (X) according to claim 1, wherein the inorganic substance (B) has an average particle diameter of 0.01 μm to 100 μm.

3. A molded article comprising the resin composition according to any one of claims 1 to 2.

4. A sheet comprising the resin composition according to any one of claims 1 to 2.

5. A toy comprising the resin composition according to any one of claims 1 to 2.

6. A daily good comprising the resin composition according to any one of claims 1 to 2.

7. An electronic equipment housing comprising the resin composition according to any one of claims 1 to 2.

RESIN COMPOSITION AND MOLDED ARTICLE

ABSTRACT

An object of the present invention is to provide a resin composition and a molded article each having suppressed surface stickiness while having high stress-relaxing ability and vibration-absorbing ability at room temperature. A resin composition (X) containing 10 to 50 parts by mass of a thermoplastic resin (A) and 50 to 90 parts by mass of an inorganic substance (B), wherein a tan δ peak temperature and tan δ peak value, obtained by performing dynamic viscoelastic measurement at a frequency of 10 rad/s (1.6 Hz) in the temperature range of -40 to 150°C, are 0°C or higher and 60°C or lower, and 0.8 or more and 5.0 or less, respectively.

[No available figure]