[Patent Document 2] JP5061405B

[Patent Document 3] JP4626055B

[Patent Document 4] JP2012-206509A

[Patent Document 5] JP5786798B

[Summary of the Invention]

[Problems to be solved by the Invention]

[0006]

A wide variety of objects are conceivable as those on which the release surface of a release sheet is laminated. For such objects, an optimal release sheet is required to be used for each object. Therefore the development of a novel release sheet is in progress from the viewpoint of increasing the options of release sheets, etc.

[0007]

The present invention has been made in consideration of such actual circumstances and an object of the present invention is to provide a novel release sheet that has good releasability.

[Means for solving the Problems]

[0008]

To achieve the above object, first, the present invention provides a release sheet comprising a base material and a release agent layer provided on at least one surface side of the base material, wherein the release agent layer is formed of a release agent composition that contains a cationically polymerizable compound, a release component, and a cationic polymerization initiator, wherein the cationically polymerizable compound contains no polysiloxane skeleton, wherein, in the release agent composition, the compounding amount of the cationically polymerizable compound is larger than each of the compounding amount of the release component and the compounding amount of the cationic polymerization initiator, wherein, in the release agent composition, the compounding amount of the cationically polymerizable compound is more than 50 mass% and 99.9 mass% or less

Claims

1. A release sheet comprising a base material and a release agent layer provided on at least one surface side of the base material,

wherein the release agent layer is formed of a release agent composition that contains a cationically polymerizable compound, a release component, and a cationic polymerization initiator, wherein the cationically polymerizable compound contains no polysiloxane skeleton,

wherein, in the release agent composition, a compounding amount of the cationically polymerizable compound is larger than each of a compounding amount of the release component and a compounding amount of the cationic polymerization initiator,

wherein, in the release agent composition, the compounding amount of the cationically polymerizable compound is more than 50 mass% and 99.9 mass% or less.

2. The release sheet as recited in claim 1, wherein the cationically polymerizable compound is an epoxy compound.

3. The release sheet as recited in claim 2, wherein the epoxy compound has three or more epoxy groups in one molecule.

4. The release sheet as recited in claim 2 or 3, wherein the epoxy compound has a molecular weight of 200 or more and 2,000 or less.

5. The release sheet as recited in any one of claims 1 to 4, wherein the release component comprises at least one selected from the group consisting of a silicone-based

release component, a fluorine-based release component, and a long-chain alkyl-based release component.

6. The release sheet as recited in any one of claims 1 to 5, wherein the release component has a reactive group that can react with the cationically polymerizable compound.

7. The release sheet as recited in claim 6, wherein the release component is reactive polyorganosiloxane.

8. The release sheet as recited in any one of claims 1 to 7, wherein surface free energy as measured on a surface of the release agent layer opposite to the base material is 25 mJ/m^2 or more and 35 mJ/m^2 or less.

9. The release sheet as recited in any one of claims 1 to 8, wherein the release sheet is used for a ceramic green sheet production process.