composition.

The present invention is made in order to solve the aforementioned problems. An object of the present invention is to provide a liquid crystal resin composition having a good moldability and a low permittivity.

Summary

In one aspect, there is provided a liquid crystal resin composition comprising (A) a liquid crystal resin and (B) a hollow filler having an aspect ratio of 1.15 or more, wherein component (B) is a glass balloon, and
the aspect ratio is an arithmetic mean value of a ratio L/S calculated for individual particles by repeating several measurements of the largest length L and the largest perpendicular length S for each of 3000 particles by the dynamic image analysis method with a particle-state analyzer, in which L represents a length of the longest portion on a projection plane of a particle, and S represents a length of the longest portion in a direction perpendicular to the largest length L on the projection plane of the particle.

Means for Solving the Problems

The present inventors conducted extensive studies in order to solve the aforementioned problems. Then, the present inventors found that use of a hollow filler having an aspect ratio of 1.15 or more can prevent an increase in melt viscosity and an decrease in fluidity, leading to production of a liquid crystal resin composition having a good

moldability and a low permittivity. Then the present invention has been completed. More specifically, the present invention provides the followings.

(1) A liquid crystal resin composition comprising (A) a liquid crystal resin and (B) a hollow filler having an aspect ratio of 1.15 or more.

(2) The composition according to (1), in which the component (B) is a glass balloon.

(3) The composition according to (1) or (2), in which the content of the component (A) is 60% by mass or more and 95% by mass or less, and the content of the component (B) is 5% by mass or more and 20% by mass or less.

(4) The composition according to (1) or (2), further comprising (C) a plate-shaped filler.

(5) The composition according to (4), in which the

CLAIMS

1. A liquid crystal resin composition comprising (A) a liquid crystal resin and (B) a hollow filler having an aspect ratio of 1.15 or more, wherein
component (B) is a glass balloon, and
the aspect ratio is an arithmetic mean value of a ratio L/S calculated for individual particles by repeating several measurements of the largest length L and the largest perpendicular length S for each of 3000 particles by the dynamic image analysis method with a particle-state analyzer, in which L represents a length of the longest portion on a projection plane of a particle, and S represents a length of the longest portion in a direction perpendicular to the largest length L on the projection plane of the particle.

2. The composition according to claim 1, wherein a content of component (A) is 60% by mass or more and 95% by mass or less, and a content of component (B) is 5% by mass or more and 20% by mass or less.

3. The composition according to claim 1, further comprising (C) a plate-shaped filler.

4. The composition according to claim 3, wherein component (C) is mica.

5. The composition according to claim 3 or 4, wherein a content of component (A) is 60% by mass or more and less than 95% by mass, a content of component (B) is 5% by mass or more and 20% by mass or less, and a content of component (C) is more than 0% by mass and 20% by mass or less.