DISPERSION COMPOSITION, CURABLE COMPOSITION USING THE SAME, TRANSPARENT FILM, MICROLENS, AND SOLID-STATE IMAGING DEVICE

ABSTRACT

Provided are a dispersion composition which has a high refractive index and has a high dispersion stability, a curable composition using the same, a transparent film, a microlens, and a solid-state imaging device.

A dispersion composition containing metal oxide particles having a primary particle diameter of 1 nm to 100 nm (A), a polymer compound having an acid value of 120 mgKOH/g or more, which is represented by the following Formula (1) (B), and a solvent (C).



Formula (1)

In Formula (1),

R^1 represents a (m+n)-valent linking group, and R^2 represents a single bond or a divalent linking group. A^1 represents a monovalent substituent having at least one group selected from the group consisting of an acid group, a urea group, a urethane group, a group having a coordinating oxygen atom, a group having a basic nitrogen atom, a phenol group, an alkyl group, an aryl group, a group having an alkyleneoxy chain, an imide group, an alkyloxycarbonyl group, an alkyl amino carbonyl group, a carboxylate group, a sulfonamide group, a heterocyclic group, an alkoxysilyl group, an epoxy group, an isocyanate group, and a hydroxyl group. n A^1's and n R^2's may be same or different.

m represents a positive number of 8 or less, n represents 1 to 9, and m+n satisfies 3 to 10.

P^1 represents a polymer chain. m P^1's may be same or different.

(FIG. 1)