ABSTRACT

A titanium black dispersion includes titanium black particles, a dispersant, and an organic solvent. When the titanium black dispersion is for a wafer level lens, 90% or more of dispersed objects that consist of the titanium black particles have particle diameters of 30 nm or less, or dispersed objects including the titanium black particles contains Si atoms and the content ratio of Si atoms to Ti atoms (Si/Ti) in the dispersed objects is 0.05 or higher. When the titanium black dispersion is used for formation of a light-shielding film that is provided on one side of a silicon substrate having an image pickup device section on the other side, and that shields against infrared light, 90% or more of dispersed objects that consist of the titanium black particles have particle diameters of 30 nm or less.