Optical Recording Medium and Manufacturing Method Therefor

ABSTRACT

A recording medium having sufficient characteristics, such as signal characteristics at an elevated density or recording durability, and a method for producing the recording medium. Specifically, there is provided an optical recording medium having a recording layer formed of a phase-change material capable of producing reversible phase changes between the crystal state and the amorphous state, in which the phase changes are induced in the recording layer on illuminating light rays on the recording layer to record and/or erase information signals. The recording layer contains $Ag\alpha In\beta Sb\gamma Te\delta$ as the phase-change material, in which the proportions of components α, β, γ and δ in at% meet the relation of $6 \leq \alpha \leq 16$, $1.1 \leq \delta/\beta \leq 2.2$ and $2 \leq \gamma/\delta \leq 3$.

Figure 1