

ABSTRACT OF THE DISCLOSURE

INFORMATION RECORDING MEDIUM GLASS SUBSTRATE AND INFORMATION RECORDING MEDIUM

It is an object to provide a glass substrate that has a low molding temperature, and has excellent durability after manufacture, and furthermore has a reduced number of surface defects; and an information recording medium that has excellent low-temperature workability and excellent weathering resistance. There are provided an information recording medium substrate characterized by being a molded article of an alkali metal-containing glass material having a composition comprising at least B, Al, alkali metals, Zn, and Si, and satisfying as molar proportions in terms of oxides thereof:

(I) $0.8 \leq (\text{R}_2\text{O content} - \text{Al}_2\text{O}_3 \text{ content}) / \text{B}_2\text{O}_3 \text{ content} \leq 1.2$,

(II) $9.0 \text{ mol}\% \leq \text{B}_2\text{O}_3 \text{ content} \leq 14.0 \text{ mol}\%$,

(III) $3.0 \text{ mol}\% \leq \text{Al}_2\text{O}_3 \text{ content} \leq 7.0 \text{ mol}\%$,

(IV) $6.0 \text{ mol}\% \leq \text{ZnO content} \leq 18.0 \text{ mol}\%$, and

(V) $40.0 \text{ mol}\% \leq \text{SiO}_2 \text{ content}$

(wherein R represents alkali metal atoms);

and also an information recording medium having such a substrate and a magnetic layer formed on the substrate, and methods of manufacturing the information recording medium substrate and the information recording medium.

Selected Drawing: Fig. 1