

GLASS FOR SUBSTRATE, AND GLASS SUBSTRATE

ABSTRACT

To provide hardly breakable glass for a substrate, which is suitable for densification for a high recording density. Glass for a substrate, which comprises, as represented by mol% based on the following oxides, from 66 to 77% of SiO_2 , from 7 to 17% of Al_2O_3 , from 0 to 7% of B_2O_3 , from 0 to 9% of Li_2O , from 0 to 8% of Na_2O , from 0 to 3% of K_2O , from 0 to 13% of MgO , from 0 to 6% of CaO , from 0 to 5% of TiO_2 and from 0 to 5% of ZrO_2 , wherein the total of contents of SiO_2 , Al_2O_3 and B_2O_3 i.e. $\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{B}_2\text{O}_3$ is from 81 to 92%, the total of contents of Li_2O , Na_2O and K_2O i.e. $\text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O}$ is from 3 to 9%, the total of contents of MgO and CaO i.e. $\text{MgO} + \text{CaO}$ is from 4 to 13%, the total of contents of Na_2O , K_2O and CaO i.e. $\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO}$ is from 0 to 10%, and the total of contents of TiO_2 and ZrO_2 i.e. $\text{TiO}_2 + \text{ZrO}_2$ is from 0 to 5%.