

ABSTRACT

An aspect of the present invention relates to glass for a magnetic recording medium substrate, which contains SiO_2 , Li_2O , Na_2O , and MgO as essential components; alkali metal oxides selected from the group consisting of Li_2O , Na_2O , and K_2O of 6 to 15 mol% in total; alkaline earth metal oxides selected from the group consisting of MgO , CaO , SrO , and BaO of 10 to 30 mol% in total; wherein a molar ratio of a content of Li_2O to a total content of alkali metal oxides $\{\text{Li}_2\text{O}/(\text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O})\}$ is greater than 0 and less than or equal to 0.3; a molar ratio of a content of MgO to a total content of alkaline earth metal oxides $\{\text{MgO}/(\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO})\}$ is greater than or equal to 0.80; a glass transition temperature is greater than or equal to 650°C ; and a Young's modulus is greater than or equal to 80 GPa.