

ABSTRACT**GLASS FOR MAGNETIC RECORDING MEDIUM SUBSTRATE, MAGNETIC RECORDING MEDIUM SUBSTRATE AND METHOD OF MANUFACTURING THE SAME, AND MAGNETIC RECORDING MEDIUM**

An aspect of the present invention relates to glass for a magnetic recording medium substrate, which comprises, denoted as molar percentages, 50 to 75 percent of SiO_2 , 0 to 5 percent of Al_2O_3 , 0 to 3 percent of Li_2O , 0 to 5 percent of ZnO , a total of Na_2O and K_2O of 3 to 15 percent, a total of MgO , CaO , SrO , and BaO of 14 to 35 percent, a total of ZrO_2 , TiO_2 , La_2O_3 , Y_2O_3 , Yb_2O_3 , Ta_2O_5 , Nb_2O_5 , and HfO_2 of 2 to 9 percent, with a molar ratio of $\{(\text{MgO}+\text{CaO})/(\text{MgO}+\text{CaO}+\text{SrO}+\text{BaO})\}$ falling within a range of 0.85 to 1, and a molar ratio of $\{\text{Al}_2\text{O}_3/(\text{MgO}+\text{CaO})\}$ falling within a range of 0 to 0.30.

Figure 1