Abstract

Glass for use in substrate for information recording medium, substrate for information recording medium and information recording medium, and their manufacturing method

According to one aspect of the present invention, provided is glass for use in substrate for information recording medium, which comprises, denoted as molar percentages, a total of 70 to 85 percent of SiO_2 and Al_2O_3, where SiO_2 content is equal to or greater than 50 percent and Al_2O_3 content is equal to or greater than 3 percent; a total of equal to or greater than 10 percent of Li_2O, Na_2O and K_2O; a total of 1 to 6 percent of CaO and MgO, where CaO content is greater than MgO content; a total of greater than 0 percent but equal to or lower than 4 percent of ZrO_2, HfO_2, Nb_2O_5, Ta_2O_5, La_2O_3 Y_2O_3 and TiO_2; with the molar ratio of the total content of Li_2O, Na_2O and K_2O to the total content of SiO_2, Al_2O_3, ZrO_2, HfO_2, Nb_2O_5, Ta_2O_5, La_2O_3, Y_2O_3 and TiO_2 $((Li_2O + Na_2O + K_2O)/(SiO_2 + Al_2O_3 + ZrO_2 + HfO_2 + Nb_2O_5 + Ta_2O_5 + La_2O_3 + Y_2O_3 + TiO_2))$ being equal to or less than 0.28. Further provided are the substrate for information recording medium, information recording medium and their manufacturing methods according to the present invention.

NO FIGURE.