

ABSTRACT

The optical glass of the present invention comprises a composition in terms of weight ratio within the range of 0 to 14.8 wt% of SiO_2 , 30 to 60 wt% of B_2O_3 , 0 to 17.5 wt% of Al_2O_3 , 0 to 0.4 wt% of Li_2O , 0 to 3 wt% of Na_2O , 0 to 3 wt% of K_2O , 0 to 5 wt% of MgO , 0 to 30 wt% of CaO , 0 to 30 wt% of SrO , 0 to 35 wt% of BaO , where RO ($\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO}$) is 8 to 35 wt%, 0 to 20 wt% of ZnO , 0 to 6.5 wt% of La_2O_3 , 0 to 15 wt% of Gd_2O_3 , 0 to 15 wt% of Y_2O_3 , 0 to 10 wt% of Ta_2O_5 , 0 to 9.5 wt% of ZrO_2 , 0 to 1 wt% of As_2O_3 , and 0 to 0.5 wt% of Sb_2O_3 ; and has a refractive index (n_d) of 1.52 to 1.65, an Abbe number (v_d) of 55 to 61, and an 80% transmission wavelength (at a thickness of 10 mm including no reflection loss) of 330 nm or shorter.