

ABSTRACT

Provided is a glass composition for glass fibers with a low coefficient of linear thermal expansion, a high elastic modulus, a low liquid phase temperature, a slow crystallization rate, and suppressed phase separation. The glass composition includes 50.0 to 70.0% by mass of SiO_2 , 10.0 to 30.0% by mass of Al_2O_3 , 8.0 to 25.0% by mass of ZnO , 0.0 to 8.0% by mass of MgO , 0.0 to 5.0% by mass of CaO , 0.0 to 8.0% by mass of P_2O_5 , 0.0 to 2.5% by mass of TiO_2 , and 0.0% by mass or more and less than 1.0% by mass in total of Li_2O , Na_2O , and K_2O , and when the contents of SiO_2 , Al_2O_3 , ZnO , MgO , CaO , and P_2O_5 are defined as S, A, Z, M, C, and P, respectively, $(M + C)/Z$ is 0.46 or less and the S, A, and P satisfy the following formula (1-1): $28.0 \leq \{(S - P) \times (A - P)\}^{1/2} \leq 36.9 \dots$ (1-1).

No Figure