

AbstractGlass ceramic and method of producing the same

A glass ceramic comprises (in wt.-% on oxide basis): SiO_2 35 to 60, B_2O_3 >4 to 10, P_2O_5 0 to 10, Al_2O_3 16.5 to 40, TiO_2 1 to 10, Ta_2O_5 0 to 8, Y_2O_3 0 to 6, ZrO_2 1 to 10, MgO 6 to 20, CaO 0 to 10, SrO 0 to 4, BaO 0 to 8, ZnO 0 to 4, $\text{SnO}_2 + \text{CeO}_2$ 0 to 4, $\text{SO}_4^{2-} + \text{Cl}^-$ 0 to 4, wherein the total content ($\text{SnO}_2 + \text{CeO}_2 + \text{SO}_4^{2-} + \text{Cl}^-$) is between 0.01 and 4 wt.-%. The glass ceramic may be processed by the float glass method, may be transparent and is, inter alia, suitable as a substrate for thin film semiconductors, in particular for display applications, solar cells etc.