

GLASS-CERAMIC, CHEMICALLY STRENGTHENED GLASS-CERAMIC, COVER PLATE GLASS AND ELECTRONIC DEVICE

ABSTRACT

Glass-ceramic, chemically strengthened glass-ceramic, cover plate glass, and an electronic device, relating to the technical field of glass-ceramic. The glass-ceramic satisfies a specific composition and crystalline phase structure, so that the contents of components of the glass-ceramic and the ratio relationship between the contents of the components satisfy specific ranges, and Na_2O , B_2O_3 , ZrO_2 , or Li_2O satisfy a specific molar percentage relationship. In addition, the glass-ceramic satisfies the condition that lithium disilicate acts as a main crystalline phase, so that the glass-ceramic can not only be endowed with excellent optical performance and a high intrinsic strength but can also be quickly and efficiently prepared into chemically strengthened glass-ceramic having a relatively high stress level and a relatively high mechanical strength under conventional chemical strengthening process conditions.

Fig 1.