

ABSTRACT

Glass for cathode-ray tube, strengthened glass, method for the production thereof and use thereof

Disclosed are a glass for a cathode ray tube which glass can be decreased in thickness and weight, a glass panel for a cathode ray tube, a cathode ray tube and methods for producing them. Further disclosed are a strengthened glass having a high bending strength and a thick stress-strain layer, a glass for a display which glass is made of the strengthened glass, particularly, a glass panel for a cathode ray tube and a cathode ray tube.

The present invention provides (1) a glass for a cathode ray tube which glass is made of a chemically strengthened glass and has a Young's modulus of at least 90 GPa, (2) a glass for a cathode ray tube, which is a chemically strengthened glass from a matrix glass which comprises SiO_2 , Al_2O_3 , an alkali metal oxide, SrO and ZrO_2 and has an Al_2O_3 content of more than 4 % by weight but not more than 20 % by weight and an SrO content of 5 to 20 % by weight, and (3) a strengthened glass formed by chemical strengthening of a physically strengthened matrix glass at a temperature lower than the strain temperature of the matrix glass.