

Abstract

A Glass-ceramic Substrate for an Information Storage Medium

A glass-ceramic substrate for an information storage medium includes, as a predominant crystal phase, lithium disilicate ($\text{Li}_2\text{O} \cdot 2\text{SiO}_2$) or a combination of lithium disilicate and at least one crystal phase selected from the group consisting of α -quartz (α - SiO_2), α -quartz solid solution (α - SiO_2 solid solution), α -cristobalite (α - SiO_2) and α -cristobalite solid solution (α - SiO_2 solid solution). This substrate has Young's modulus (GPa)/specific gravity of 37 or over, surface roughness Ra (arithmetic mean roughness) of 5.0 Å or below, a coefficient of thermal expansion within a temperature range from -50°C to $+70^\circ\text{C}$ which ranges from $+65 \times 10^{-7}/^\circ\text{C}$ to $+130 \times 10^{-7}/^\circ\text{C}$ and bending strength of 400MPa or over.

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