

AbstractGlass-ceramic Substrate for an Information Storage Medium

There is provided a glass-ceramic substrate for an information storage medium usable in an information storage device of the ramp loading system. The glass-ceramic substrate has Young's modulus (GPa)/specific gravity of 37 or over and includes 0 to less than 10 weight percent (expressed on oxide basis) of Al_2O_3 . The glass-ceramic substrate has, as its predominant crystal phases, lithium disilicate ($\text{Li}_2\text{O} \cdot 2\text{SiO}_2$) and α -quartz ($\alpha\text{-SiO}_2$), has a coefficient of thermal expansion within a range from $65 \times 10^{-7}/^\circ\text{C}$ to $130 \times 10^{-7}/^\circ\text{C}$ within a temperature range from -50°C to $+70^\circ\text{C}$ and has a surface roughness (Ra) (arithmetic mean roughness) of $9 \text{ \AA}$ or below.

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