OPTICAL RECORDING MEDIUM

ABSTRACT

An optical recording medium prohibiting the grazing or deformation from being produced on its light transmitting layer to assure optimum recording and/or reproduction. The optical recording medium includes a substrate, 0.3 mm to 1.2 mm in thickness, and a light transmitting layer, 3 μm to 177 μm in thickness, bonded on the recording layer. The information may be record and/or reproduce by irradiating the light from the side of the light transmitting layer. The surface of the light transmitting layer is surface-processed with a view to increasing the hardness, reducing the frictional coefficient and to prevention of electrification. The surface-processed light transmitting layer has a hardness not less than 13 MHz in terms of Vickers hardness. Alternatively, the surface-processed light transmitting layer has a hardness not less than 0.5 GPa and a Young's modulus not less than 4 GPa as measured by the nano-indentation method.

Figure 1