

RESIN MOLD, PRODUCTION METHOD THEREOF, AND USE THEREOF

Abstract

Problem: The purpose of the present invention is to provide a resin mold that has excellent releasability from the resin to be imprinted without transfer defects, and that does not cause shedding of the mold release agent due to imprinting.

Means to Solve the Problem: A resin mold of the present invention includes a resin layer having a depressions and protrusions pattern formed in the surface thereof, and a release layer including a mold release agent and formed of uniform thickness on at least the depressions and protrusions pattern of the aforementioned resin layer. The aforementioned resin layer has a solvent soluble resin, and an additive that has bleeding ability with respect to the solvent soluble resin, has a substituent group capable of coupling with the aforementioned mold release agent, and has a substituent group having compatibility with the aforementioned solvent soluble resin. The aforementioned additive is localized in the vicinity of the aforementioned resin layer surface. The group of the additive capable of coupling with the mold release agent condenses with the aforementioned mold release agent so that the aforementioned resin layer and release layer are bonded together.

(FIG. 1)