

Abstract

To provide an electric precipitator for a press mold, which can collect more reliably dusty foreign matter emitted during stamping process utilizing an electrostatic force, has excellent installability, and can be used safely. Provided is an electric precipitator for a press mold, the electric precipitator being used together with the press mold to collect dusty foreign matter emitted during stamping process by an electrostatic force and including: a laminated sheet in which a dust collection layer that holds the dusty foreign matter in contact, a first electrode layer, a second electrode layer, an insulation layer, and a close-contact fixation layer for installation on and fixation to a mold to be used are laminated; and a power supply device that applies voltages across the first and second electrode layers. The insulation layer at least has a first insulation layer that insulates the dust collection layer and the first electrode layer, a second insulation layer that insulates the first electrode layer and the second electrode layer, and a third insulation layer that insulates the second electrode layer and the close-contact fixation layer. The first and second electrode layers are films obtained by coating a polyethylene terephthalate (PET) base material with a conductive polymer and having a surface resistivity of 10^4 to $10^5 \Omega$.

A polyimide film having a base material thickness of 75 μm is used for the second insulation layer. A press mold including the same is also provided.