

ABSTRACT

A printing plate material producing concave-convex pattern on the surface with a low laser energy output and having high scratch resistance is provided by formation of a photosensitive layer comprising a nitro-cellulose, carbon black or other photoabsorber and a polyurethane elastomer on a support. The nitrocellulose has a nitrogen content of about 11 to 12.5% and a solution viscosity of about 1 to 1/8 second. The polyurethane elastomer is obtainable by allowing a polyester polyol to react with a polyisocyanate and a chain-extending agent. Relative to 100 parts by weight of the polyurethane elastomer, the amount of nitrocellulose is about 5 to 300 parts by weight and that of the photoabsorber is about 0.5 to 50 parts by weight. The photosensitive layer may have a glass transition temperature of not lower than 25°C. The photosensitive layer may further comprise a plasticizer.