

LASER-WELDABLE PLASTIC MATERIALS WHICH ARE TRANSPARENTLY,
TRANSLUCENTLY OR OPAQUELY DYED BY MEANS OF COLORANTS

ABSTRACT OF THE DISCLOSURE

The present invention relates to transparent, translucent, or opaque plastic materials that are tinted due to colorants, which are laser-weldable due to a content of nanoscale laser-sensitive particles. These plastic materials, which may be provided as molded bodies, semifinished products, or lacquer coatings, particularly contain laser-sensitive particles with a particle size from 5 to 100 nm and a content from 0.0001 to 0.1 weight had percent. Typical compounds are nanoscale indium-tin oxide, antimony-tin oxide, indium-zinc oxide, and lanthanum hexaboride.

(no suitable figure)