

ABSTRACT OF THE DISCLOSURE

TRANSPARENT, TRANSLUCENT, OR OPAQUE LASER-WELDABLE
PLASTIC MATERIALS THAT ARE TINTED BY COLORANTS

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.