

Abstract of the Disclosure

A film providing electrostatic shielding comprises a first layer of a carrier material and a second layer of a thermoplastic, polymeric material, both layers being electrically insulative, flexible and transparent, and there further being a plurality of thin, conductive slivers suspended in the second layer. The slivers have a melting temperature greater than the melting temperature of the polymeric material, and the polymeric material has a melting temperature lower than that of the carrier material. The film passes at least 70% of visible light.

The film is constructed by applying the slivers to a sheet having a dimensionally stable layer and a thermoplastic layer, the slivers being applied to the thermoplastic layer, and then laminating a cover sheet over the thermoplastic layer, the cover sheet being formed of the same material as the thermoplastic layer. The thermoplastic layer is heated to its melting point, and the cover sheet is extruded and laminated in a molten state whereby the cover sheet blends with the thermoplastic layer to form a single, homogenous layer. The slivers form an essentially two-dimensional, conductive network which is suspended in the homogenous layer, and may be present in an amount as little as 2 g/m².