

ABSTRACT

ELECTRICALLY CONDUCTIVE THERMOPLASTIC RESIN COMPOSITION

An electrically conductive thermoplastic resin composition contains (i) 100 parts by mass of a thermoplastic resin component, which consists of 1 to 100 % by mass of a polycarbonate resin (A) and 0 to 99 % by mass of a rubber-reinforced resin (B) obtained by polymerizing at least one vinyl monomer selected from the group consisting of an aromatic vinyl, a vinyl cyanide and a (meth)acrylate ester in the presence of a rubbery polymer, and (ii) 0.1 to 20 parts by mass of a fine carbon fiber (C), wherein a graphite-net plane consisting solely of carbon atoms forms a temple-bell-shaped structural unit comprising closed head-top part and body-part with open lower-end, 2 to 30 of the temple-bell-shaped structural units are stacked sharing a common central axis to form an aggregate, and the aggregates are connected in head-to-tail style with a distance to form the fiber. The electrically conductive thermoplastic resin composition can form a molded article having a high electric conductivity and excellent in surface appearance and impact resistance.

Fig. 2(a) & 2(b)