Claims

1. An epoxy resin composition for a prepreg, the epoxy resin composition comprising:

(A) an epoxy resin that does not contain a nitrogen atom;

(B) a curing agent or a curing accelerator;

(C) silica microparticles; and

(D) core-shell rubber particles;

the epoxy resin composition comprising, per 100 parts by mass of (A) the epoxy resin, from 1 to 5 parts by mass of (C) the silica microparticles and from 2 to 10 parts by mass of (D) the core-shell rubber particles, and

a mass ratio of (C) the silica microparticles to (D) the core-shell rubber particles, in terms of (C)/(D), being from 1/1 to 1/5.

2. The epoxy resin composition for a prepreg according to claim 1, wherein, when viscoelasticity is measured at a temperature of 70°C and a frequency of 1 Hz using parallel plates, tan δ at 1% strain is less than 1 and tan δ at 100% strain is more than 1.

3. The epoxy resin composition for a prepreg according to claim 1, wherein an average particle diameter of (C) the silica microparticles is from 5 nm to 100 nm.

4. The epoxy resin composition for a prepreg according to claim 1, wherein an average particle diameter of (D) the core-shell rubber particles is from 10 nm to 10 μm.

5. The epoxy resin composition for a prepreg according to claim 1, the epoxy resin composition further comprising from 5 to 50 parts by mass of a thermoplastic resin per 100 parts by mass of (A) the epoxy resin.

6. The epoxy resin composition for a prepreg according to claim 5, wherein the thermoplastic resin is a phenoxy resin.

7. A prepreg comprising the epoxy resin composition for a prepreg according to claim 1 and a reinforcing fiber.