## CLAIMS

[1] A maleimide copolymer comprising 50 to 60 mass% of a styrene monomer unit, 30 to 49.5 mass% of a maleimide monomer unit and 0.5 to 6 mass% of an unsaturated dicarboxylic anhydride monomer unit; the copolymer having a weight average molecular weight (Mw) of 90,000 to 130,000 and a residual maleimide monomer content of 300 ppm or lower.

[2] The maleimide copolymer according to claim 1, comprising 50 to 59 mass% of the styrene monomer unit, 35 to 49.5 mass% of the maleimide monomer unit and 0.5 to 6 mass% of the unsaturated dicarboxylic anhydride monomer unit.

[3] The maleimide copolymer according to claim 1 ~~or 2~~, having a glass transition temperature within a range of 175 to 190 °C.

[4] A method for producing a maleimide copolymer according to ~~any one of~~ claims 1 ~~to 3~~, comprising:

a step of generating a styrene/unsaturated dicarboxylic anhydride copolymer by polymerization by adding, to a mixed solution mainly comprising a total amount of the styrene monomer and a portion of the unsaturated dicarboxylic anhydride, continuously or in batches, the remainder of the unsaturated carboxlic anhydride; and

a step of generating a maleimide copolymer by imidizing the styrene/unsaturated dicarboxylic anhydride copolymer by a primary amine.

[5] The method for producing a maleimide copolymer according to claim 4, wherein the styrene/unsaturated dicarboxylic anhydride copolymer is obtained by solution polymerization in a non-polymerizable solvent, and the rate of polymerization of the unsaturated dicarboxylic anhydride monomer is at least 99.9%.

[6] The method for producing a maleimide copolymer according to claim 4 ~~or 5~~, further comprising a step of devolatilizing the mixed solution comprising the

maleimide copolymer after the reaction using a vent-type screw extruder at a resin temperature of 310 to 340 °C under a reduced pressure of -92 kPaG or lower.

[7] A heat-resistant resin composition comprising the maleimide copolymer comprising 50 to 60 mass% of a styrene monomer unit; 30 to 49.5 mass% of a maleimide monomer unit and 0.5 to 6 mass% of an unsaturated dicarboxylic anhydride monomer unit; the copolymer having a weight average molecular weight (Mw) of 90,000 to 130,000 and a residual maleimide monomer content of 300 ppm or lower; ~~according to any one of claims 1 to 3~~ and

one or more resins selected from the group consisting of ABS resins, AS resins, AES resins and AAS resins.