an abundance of a component having a molecular weight of 250000 or higher obtained from the GPC elution curve is 12% or more of a GPC area.

[Claim 4]

The methacrylic resin composition for non-contact hot plate welding according to any one of claims 1 to 3, wherein the methacrylic resin

has an extrapolated onset temperature (°C) of 120°C or lower as determined from a glass transition curve obtained by heating from 40°C to 210°C at a heating rate of 10°C/min according to JIS-K-7121 with α-alumina as a reference in a nitrogen gas atmosphere using a differential scanning calorimeter (DSC).

[Claim 5]

The methacrylic resin composition for non-contact hot plate welding according to any one of claims 1 to 4, wherein the methacrylic resin composition is used as a raw material for a member for a vehicle.

[Claim 6]

The methacrylic resin composition for non-contact hot plate welding according to claim 5, wherein the member for the vehicle is at least one member selected from the group consisting of a taillight cover, a headlight cover, and a meter panel.

[Claim 7]

A method for producing a molded article, comprising the steps of:

heating a molded article (A) in no contact with a hot plate so that a surface of the molded article (A) is melted, the molded article (A) comprising a methacrylic resin comprising 80 to 99.9% by mass of a methacrylic acid ester monomer unit and 0.1 to 20% by mass of a unit of at least one additional vinyl monomer copolymerizable with the methacrylic acid ester monomer, wherein the molded article (A) has a melt flow rate (MFR) of 2.5 g/10 min or lower at 230°C at a load of 3.8 kg; and

welding the molded article (A) with an additional molded article (B).

[Claim 8]

The method for producing the molded article according to claim 7, wherein the methacrylic resin is a methacrylic resin which has a weight-average molecular weight of 300000 or lower as measured by gel permeation chromatography (GPC), and which contains 6 to 50% of a component having a molecular weight that is 5 times or more lower than a peak top molecular weight (Mp) obtained from a GPC elution curve.

[Claim 9]

The method for producing the molded article according to claim 7 or 8, wherein the methacrylic resin is a methacrylic resin in which

an abundance of a component having a molecular weight of 250000 or higher obtained from the GPC elution curve is 12% or more of a GPC area.

[Claim 10]

The method for producing the molded article according to any one of claims 7 to 9, wherein the methacrylic resin

has an extrapolated onset temperature (°C) of 120°C or lower as determined from a glass transition curve obtained by heating from 40°C to 210°C at a heating rate of 10°C/min according to JIS-K-7121 with α-alumina as a reference in a nitrogen gas atmosphere using a differential scanning calorimeter (DSC).

[Claim 11]

The method for producing the molded article according to any one of claims 7 to 10, wherein the molded article (A) has a water absorption rate of 0.5% by mass or lower.

[Claim 12]

The method for producing the molded article according to any one of claims 7 to 11, wherein the molded article (B) is a molded article of an ABS-based resin.