

GLASS-FIBER-REINFORCED RESIN COMPOSITION AND MOLDED GLASS-FIBER-REINFORCED RESIN ARTICLE

Abstract

Provided is a glass fiber-reinforced resin composition that has excellent strength and an excellent modulus when processed into a glass fiber-reinforced resin molded article and has excellent processability on producing a glass fiber-reinforced resin molded article. In the glass fiber-reinforced resin composition, the content of SiO_2 S is 48 to 70% by mass and the content of Al_2O_3 A is 9 to 30% by mass with respect to the total amount of the glass fiber included therein, the glass fiber comprises a flat cross-sectional shape having a minor axis DS of 6.0 to 15.0 μm and a major axis DL of 20.5 to 50.0 μm , the glass fiber content C in the glass fiber-reinforced resin composition is from 65.0 to 85.0% by mass, and S, A, DS, DL, and C satisfy the following formula (1).

$$2.24 \leq (100 \times (A^2/S) \times (C/100)^8) / (DS^{3/4} \times DL^{1/4}) \leq 5.85 \quad (1)$$

No Figure