

COLORED GLASS FIBER AND MANUFACTURING METHOD THEREFOR

ABSTRACT

Provided is a colored glass fiber for use as a reinforced fiber, allowing a molded product to have high strength and good appearance. A glass fiber is surface treated with a surface treatment agent including a first silane coupling agent, a coating agent and a surfactant, colored with a coloring agent including a second silane coupling agent and a pigment, and water-washed, so that the colored glass fiber is obtained. The treatment is performed to have a sum of the weight of a surface treatment layer and a colored layer of 0.25 to 1.70 wt% with respect to the weight of the glass fiber. Due to a coating formed from the surface treatment agent on the glass surface, the colored glass fiber is not scratched by the pigment contained in the coloring agent. Consequently, the mold product doesn't degrade the strength and has good appearance due to the coloring.

FIG. 1A

FIG. 1B