

ABSTRACT

Disclosed herein is a thermoplastic resin fiber that uses highly versatile resin raw materials but exhibits high extensibility that is conventionally unknown. With a view to providing a method for producing the fiber and a fabric using the fiber, the thermoplastic resin fiber includes a thermoplastic resin containing a polyolefin resin, a polyamide resin, and a compatibilizer, and has a fracture elongation of 50% or more, wherein the compatibilizer is a modified elastomer having a reactive group that reacts with the polyamide resin. The fabric uses the thermoplastic resin fiber. The method includes a spinning step in which a thermoplastic resin composition obtained by melt-kneading a melt-kneaded product of the polyamide resin and the modified elastomer and the polyolefin is spun into a fiber.

[Fig. 2]