

ABSTRACT
FIBER-REINFORCED MATERIAL AND STRUCTURE

Disclosed herein are a fiber-reinforced material and an article which are hard to break. The fiber-reinforced material includes a fiber assembly 15 and a matrix material 12 coating the fiber assembly 15, wherein the matrix material 12 is a thermoplastic resin composition obtained by blending a polyolefin resin, a polyamide resin, and a modified elastomer having a reactive group that reacts with the polyamide resin. When a puncture test is performed at a striker speed of 1 m/sec or more but 4 m/sec or less and when a deflection when a maximum impact force is applied is defined as P_M and a deflection at break is defined as P_B , $P_B/P_M \geq 4$. Further, when the amount of energy absorbed before a maximum impact force is applied is defined as E_1 , the amount of energy absorbed after a maximum impact force is applied and before break is defined as E_2 , and a total amount of absorbed energy of E_1 and E_2 is defined as E_T , the ratio of E_2 to E_T is 70% or more. The article is made of the fiber-reinforced material. (Fig. 2)