CLAIMS

1. A structure comprising: a core material; and a matrix material coating the core material, wherein

the core material is a fiber assembly whose constituent fibers have a fiber length of 15 mm or more,

the matrix material 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, the thermoplastic resin composition containing the polyamide resin in a ratio of 15% by mass or more but 72% by mass or less when a total amount of the polyolefin resin, the polyamide resin, and the modified elastomer is taken as 100% by mass.

2. The structure according to claim 1, wherein when a total amount of the polyolefin resin, the polyamide resin, and the modified elastomer is taken as 100% by mass, a ratio of the polyolefin resin is 35 to 70% by mass, a ratio of the polyamide resin is 15 to 49% by mass, and a ratio of the modified elastomer is 15 to 35% by mass.

3. The structure according to claim 1 or 2, wherein the modified elastomer is an acid-modified ethylene-1-butene copolymer.

4. The structure according to any one of claims 1 to 3, wherein the polyamide resin is polyamide 11.

5. The structure according to any one of claims 1 to 4, wherein when a puncture test is performed on a 120 mm × 150 mm test specimen having a thickness of 0.6 mm at a striker speed of 1 m/sec or more but 4 m/sec or less, and

when a deflection (mm) when a maximum impact force (N) is applied is defined as P_M, and

a deflection (mm) at break is defined as P_B, $P_B/P_M \geq 4$.

6. The structure according to claim 5, wherein when an amount of energy (Nmm) absorbed before a maximum impact force (N) is applied is defined as E_1,

an amount of energy (Nmm) absorbed after a maximum impact force (N) is applied and before break is defined as E_2, and

a total amount of absorbed energy (Nmm) as a total of the amount of energy E_1 and the amount of energy E_2 is defined as E_T, a ratio of E_2 to E_T (E_2/E_T) is 70% or more.

7. The structure according to any one of claims 1 to 6, wherein the fiber assembly is a woven/knit fabric.

8. The structure according to any one of claims 1 to 6, wherein the fiber assembly is a non-woven fabric.

9. The structure according to any one of claims 1 to 8, wherein the thermoplastic resin composition has a continuous phase (A) containing the polyolefin resin, and

a dispersed phase (B) dispersed in the continuous phase (A) and containing the polyamide resin.

10. The structure according to claim 9, wherein the dispersed phase (B) further contains the modified elastomer, and

the dispersed phase (B) has a continuous phase (B_1) containing the polyamide resin and a fine dispersed phase (B_2) dispersed in the continuous phase (B_1) and containing the modified elastomer.