CLAIMS

1. A vehicle door trim board comprising:

an upper board part;

a lower board part being configured to be separated from the upper board part in a vertical direction; and

a reinforcing part made of an impact resistant resin containing a polyolefin resin, a polyamide resin, and a compatibilizer;

wherein the compatibilizer is a modified elastomer having a reactive group that reacts with the polyamide resin, wherein the reinforcing part is interposed between the upper board part and the lower board part,

wherein each of the upper board part and the lower board part is formed of a fiber-reinforced board containing plant fibers and a binder resin that binds the plant fibers together, and

wherein the upper board part, the lower board part, and the reinforcing part are integrally provided as an insert-molded product using the fiber-reinforced boards as insert bodies.

2. The vehicle door trim board according to claim 1, wherein the reinforcing part is provided in a band form so as to penetrate the vehicle door trim board in a front-back direction of a vehicle,

the lower board part has at least one other band-shaped reinforcing part different from the reinforcing part, and

the at least one other band-shaped reinforcing part is made of the impact resistant resin and provided almost in parallel to the reinforcing part.

3. The vehicle door trim board according to claim 1 or 2, wherein the impact resistant resin 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 and the modified elastomer.

4. The vehicle door trim board according to claim 3, wherein 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.

5. The vehicle door trim board according to claim 3 or 4, wherein the modified elastomer is an olefin-based thermoplastic elastomer having, as a skeleton, a copolymer of ethylene or propylene and an α-olefin having 3 to 8 carbon atoms.

6. A vehicle door trim board comprising:

an upper board part;

a lower board part being configured to be adjacent to the upper board part in a vertical direction; and

a reinforcing part made of an impact resistant resin containing a polyolefin resin, a polyamide resin, and a compatibilizer,

wherein the reinforcing part covers at least a surface of a boundary zone between the upper board part and the lower board part,

wherein the upper board part and the lower board part are integrally formed of a fiber-reinforced board containing plant fibers and a binder resin that binds the plant fibers together, and

wherein the upper board part, the lower board part, and the reinforcing part are integrally provided as an insert-molded product using the fiber-reinforced board as an insert body.

7. The vehicle door trim board according to claim6, wherein the reinforcing part is provided in a band form so as to penetrate the vehicle door trim board in a front-back direction of a vehicle,

the lower board part has at least one other band-shaped reinforcing part different from the reinforcing part, and

the at least one other band-shaped reinforcing part is made of the impact resistant resin and provided almost in parallel to the reinforcing part.

8. The vehicle door trim board according to claim 6 or 7, wherein the impact resistant resin 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 and the modified elastomer.

9. The vehicle door trim board according to claim 8, wherein 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.

10. The vehicle door trim board according to claim 8 or 9, wherein the modified elastomer is an olefin-based thermoplastic elastomer having, as a skeleton, a copolymer of ethylene or propylene and an α-olefin having 3 to 8 carbon atoms.

11. The vehicle door trim board according to claim 2 or claim 7, wherein a portion of the lower part is replaced with the at least one other band-shaped reinforcing part.

12. The vehicle door trim board according to any one of claims 1 to 11, wherein the amount of reinforcing fibers to the amount of binder resin is from 33% to 65% by mass.

13. A door trim comprising:

the vehicle door trim board according to any one of claims 1 to 12; and

a surface skin layer provided on a design surface side of the vehicle door trim board,

wherein the design surface side of the vehicle door trim board is an interior side of a vehicle.