CLAIMS

1. A thermoplastic resin sheet comprising a thermoplastic 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 thermoplastic resin sheet 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, and

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.

2. The thermoplastic resin sheet according to claim 1, which is made of a melt-kneaded product of a melt-kneaded product of the polyamide resin and the modified elastomer and the polyolefin resin.

3. The thermoplastic resin sheet according to claim 1 or 2, wherein the polyamide resin has a structure in which a hydrocarbon group between adjacent amide bonds in a main chain has a linear chain of 6 or more carbon atoms.

4. The thermoplastic resin sheet according to any one of claims 1 to 3, 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 or a styrene-based thermoplastic elastomer having a styrene skeleton.

5. The thermoplastic resin sheet according to any one of claims 1 to 4, wherein when its elongation at break at a temperature of 140°C is defined as S_{140} (%) and its elongation at break at a temperature of 120°C is defined as S_{120} (%), S_{140} is 1.2 times or more S_{120}.

6. A laminated sheet comprising: a base layer containing a polyolefin resin; and
the thermoplastic resin sheet according to any one of claims 1 to 5 bonded to one surface of the base layer.

7. A molded body comprising: a base body containing a polyolefin resin; and
the thermoplastic resin sheet according to any one of claims 1 to 5 or the laminated sheet according to claim 6, the thermoplastic resin sheet or the laminated sheet being bonded to one surface of the base body.

8. The molded body according to claim 7, wherein the base body comprises reinforcing fibers and a binder binding the reinforcing fibers together, and the binder is the polyolefin resin.

9. A molded body comprising a base body containing a polyolefin resin; and a thermoplastic resin sheet or a laminated sheet, the thermoplastic resin sheet or the laminated sheet being bonded to one surface of the base body,

wherein the base body comprises reinforcing fibers and a binder binding the reinforcing fibers together, and the binder is the polyolefin resin,

wherein the thermoplastic resin sheet comprises a thermoplastic 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, and

wherein the laminated sheet comprises a base layer containing a polyolefin resin; and the thermoplastic resin sheet bonded to one surface of the base layer.

10. The molded body according to claim 9, wherein the thermoplastic resin sheet 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.

11. The molded body according to claim 9 or 10, wherein an elongation at break S_{140} of the thermoplastic resin sheet is 1.2 times or more S_{120} when its elongation at break at a temperature of 140°C is defined as S_{140} (%) and its elongation at break at a temperature of 120°C is defined as S_{120} (%).