CLAIMS

[Claim 1]

A resin molding method,

comprising the steps of:

(a) supplying a film to a die surface of a resin molding die;

(b) adhering the film to the die surface and causing the film to be in a state of being separated from the die surface at a corner section of a cavity recess after performing the step (a);

(c) closing a die set to clamp the film after performing the step (b); and

(d) thermosetting a resin filling the interior of the cavity recess on the film provided therebetween, while adhering the film to the corner section.

[Claim 2]

The resin molding method according to claim 1,

wherein, in the step (b), the film is caused to be in the state of being separated from the die surface at the corner section after adhering the film to the die surface.

[Claim 3]

The resin molding method according to claim 1 or 2,

wherein, in the step (b), the film is pulled by pressing the film with a projecting section, which is provided around an opening part of the cavity recess and which is projected from the die surface, so as to separate the film from the corner section.

[Claim 4]

The resin molding method according to claim 3,

wherein the projecting section is constituted by a plurality of pins, and

the pins are located to enclose the opening part of the cavity recess.

[Claim 5]

The resin molding method according to claim 3,

wherein the projecting section is an annular frame enclosing the opening part of the cavity recess.

[Claim 6]

The resin molding method according to any one of claims 1-5,

wherein a depth of the cavity recess can be varied, and

the film is adhered to and along the corner section, with reducing the depth of the cavity recess, in the step (d).

[Claim 7]

A resin molding die set, comprising:

one resin molding die having a cavity recess and the other resin molding die, which can be opened and closed and in which a resin filling the cavity recess is thermoset on a film,

wherein a clamper recess is formed around the cavity recess of the one resin molding die and recessed from a parting surface thereof, and a projecting section is projected from a parting surface of the other resin molding die and positioned to face the clamper recess, and

wherein the projecting section enters the clamper recess with pressing the film, by moving the one resin molding die and the other resin molding die close to each other, such that the film is pulled and

separated from the corner section of the cavity recess.

[Claim 8]

The resin molding die set according to claim 7,

wherein the projecting section is constituted by a plurality of pins, and

the pins are located to enclose the opening part of the cavity recess.

[Claim 9]

The resin molding die set according to claim 7,

wherein the projecting section is an annular frame enclosing the opening part of the cavity recess.

[Claim 10]

The resin molding die set according to any one of claims 7-9, further comprising:

a supporting section for supporting the film, the supporting section being provided in the clamper recess; and

an elastic member being provided in the clamper recess, the elastic member biasing the supporting section from an inner bottom surface of the clamper recess so as to support the supporting section.

[Claim 11]

The resin molding die set according to any one of claims 7-10, further comprising:

an insertion recess, into which the projecting section can be inserted, being recessed from the parting surface of the other resin molding die; and

a shim for adjusting an amount of projecting the projecting section from the parting surface of the other resin molding die, the shim being provided in an inner bottom surface of the insertion recess.

[Claim 12]

The resin molding die set according to any one of claims 7-11, further comprising:

an accommodating recess, which is capable of accommodating a jig for supporting the film, being recessed from the parting surface of the one resin molding die and formed on an outer side of the clamper recess.

CLAIMS

[Claim 1]

A resin molding method,

comprising the steps of:

(a) supplying a film to a die surface of a resin molding die;

(b) adhering the film to the die surface and causing the film to be in a state of being separated from the die surface at a corner section of a cavity recess after performing the step (a); wherein the film is pulled by pressing the film with a projecting section, which is provided around an opening part of the cavity recess and which is projected from the die surface, so as to separate the film from the corner section;

(c) closing a die set to clamp the film after performing the step (b); and

(d) thermosetting a resin filling the interior of the cavity recess on the film provided therebetween, while adhering the film to the corner section.

[Claim 2]

The resin molding method according to claim 1,

wherein, in the step (b), the film is caused to be in the state of being separated from the die surface at the corner section after adhering the film to the die surface.

[Claim 3]

The resin molding method according to claim 1,

wherein the projecting section is constituted by a plurality of pins, and

the pins are located to enclose the opening part of the cavity recess.

[Claim 4]

The resin molding method according to claim 1,

wherein the projecting section is an annular frame enclosing the opening part of the cavity recess.

[Claim 5]

The resin molding method according to any one of claims 1-4,

wherein a depth of the cavity recess can be varied, and

the film is adhered to and along the corner section, with reducing the depth of the cavity recess, in the step (d).

[Claim 6]

A resin molding die set, comprising:

one resin molding die having a cavity recess and the other resin molding die, which can be opened and closed and in which a resin filling the cavity recess is thermoset on a film,

wherein a clamper recess is formed around the cavity recess of the one resin molding die and recessed from a parting surface thereof, and a projecting section is projected from a parting surface of the other resin molding die and positioned to face the clamper recess, and

wherein the projecting section enters the clamper recess with pressing the film, by moving the one resin molding die and the other resin molding die close to each other, such that the film is pulled and separated from the corner section of the cavity recess.

[Claim 7]

The resin molding die set according to claim 6,

wherein the projecting section is constituted by a plurality of pins, and

the pins are located to enclose the opening part of the cavity recess.

[Claim 8]

The resin molding die set according to claim 6,

wherein the projecting section is an annular frame enclosing the opening part of the cavity recess.

[Claim 9]

The resin molding die set according to any one of claims 6-8, further comprising:

a supporting section for supporting the film, the supporting section being provided in the clamper recess; and

an elastic member being provided in the clamper recess, the elastic member biasing the supporting section from an inner bottom surface of the clamper recess so as to support the supporting section.

[Claim 10]

The resin molding die set according to any one of claims 6-9, further comprising:

an insertion recess, into which the projecting section can be inserted, being recessed from the parting surface of the other resin molding die; and

a shim for adjusting an amount of projecting the projecting section from the parting surface of the other resin molding die, the shim being provided in an inner bottom surface of the insertion recess.

[Claim 11]

The resin molding die set according to any one of claims 6-10, further comprising:

an accommodating recess, which is capable of accommodating a jig for supporting the film, being recessed from the parting surface of the one resin molding die and formed on an outer side of the clamper recess.