Claims

[Claim 1]

A fiber for artificial hair, wherein:

the fiber for artificial hair comprises a hollow portion extending in a longitudinal direction of the fiber for artificial hair;

a cross-section of the fiber for artificial hair perpendicular to the longitudinal direction comprises at least one joint portion; and

the joint portion comprises a strength-enhancing structure for improving joint strength.

[Claim 2]

The fiber for artificial hair of Claim 1, wherein the strength-enhancing structure improves the joint strength by being thicker than other portions.

[Claim 3]

The fiber for artificial hair of Claim 1 or Claim 2, wherein the strength-enhancing structure comprises at least one of an inner protruding portion protruding toward the hollow portion and an outer protruding portion protruding toward an outside of the fiber for artificial hair.

[Claim 4]

A fiber for artificial hair, wherein:

the fiber for artificial hair comprises a hollow portion extending in a longitudinal direction of the fiber for artificial hair; and

a cross-section of the fiber for artificial hair perpendicular to the longitudinal direction comprises at least one of an inner protruding portion protruding toward the hollow portion and an outer protruding portion protruding toward an outside of the fiber for artificial hair.

[Claim 5]

The fiber for artificial hair of any one of Claims 1 to 4, wherein the hollow portion occupies an area of 5% to 50% in the cross-section of the fiber for artificial hair perpendicular to the longitudinal direction.

[Claim 6]

The fiber for artificial hair of Claim 3 or Claim 4, wherein, when a maximum value of a central thickness of the inner protruding portion and the outer protruding portion is X_{MAX}, and a thickness of a thinnest portion at a location other than the inner protruding portion and the outer protruding portion is Y, a ratio of X_{MAX} to Y is from 0.90 to 2.50.

[Claim 7]

The fiber for artificial hair of any one of Claims 1 to 6, comprising a vinyl chloride-based resin.

[Claim 8]

The fiber for artificial hair of Claim 3, Claim 4 or Claim 6, wherein a protruding portion height Z of the inner protruding portion or the outer protruding portion is 1 μm or more.

[Claim 9]

The fiber for artificial hair of Claim 4, wherein:

a cross-section of the fiber for artificial hair perpendicular to the longitudinal direction comprises a joint portion forming at least one of the inner protruding portion and the outer protruding portion; and

the joint portion is formed by resin composition coming into contact with each other and fusing.

[Claim 10]

A hair decoration product comprising the fiber for artificial hair of any one of Claims 1 to 9.

[Claim 11]

A nozzle for melt extrusion of the fiber for artificial hair of any one of Claims 1 to 10, the nozzle comprising one or more C-shaped nozzle holes or two or more rod-shaped nozzle holes.

[Claim 12]

The nozzle of Claim 11, wherein, on an opening surface of the nozzle, when a minor axis length of the nozzle hole is A, and a length of a line connecting points equidistant from an inner surface and an outer surface of the nozzle hole is B, a ratio of B to A is from 3 to 20.

[Claim 13]

The nozzle of Claim 11 or Claim 12, wherein, on an opening surface of the nozzle, when a minor axis length of the nozzle hole is A, and a separation distance between the nozzle holes is C, a ratio of C to A is from 0.5 to 1.5.