【Summary of Invention】

【Problem to be solved by the invention】

【0004】

When a formed product is manufactured by using consumable filaments as disclosed in Patent Document 1, the formed product has a rubbery or a plastic-like tactile feeling, or the like, and does not have a comfortable tactile feeling.

【0005】

The present disclosure was invented in light of this problem. One aspect of the present disclosure is, for example, to provide a formed product or a flock product having a comfortable tactile feeling.

【Means for solving the problem】

【0006】

A core / sheath structure of one embodiment of the present disclosure is a core / sheath structure composing a forming material or a formed product which is generated from the forming material, comprising: a core having a linear shape and an outer peripheral surface and including at least one thermoplastic polymer; and a sheath at least partly covering the outer peripheral surface and including one or both of fibers or particles.

【0007】

A method for producing a filament of one embodiment of the present disclosure comprises: using one or more extruders to extrude a first set of materials for a core of the filament and a second set of materials for a sheath of the filament, wherein the second set of materials comprises at least one or both of fibers or particles; using a core section and a sheath section of at least one die head in order to route the first set of materials and the second set of materials, respectively, that are extruded from the one or more extruders; and during or after using the core section and the sheath section of the at least one die head, forming the filament by cooling the first set of materials and the second set of materials.

【0008】

A formed product of one embodiment of the present disclosure comprises: one or more layers, the one or more layers comprising at least one core/sheath structure comprising: a core having a linear shape and an outer peripheral surface and including at least one thermoplastic polymer; and a sheath at least partly covering the outer peripheral surface and including one or both of fibers or particles.

【Brief description of the drawings】

【0009】

FIG. 1 is a perspective view schematically illustrating a forming material of a first embodiment.

FIG. 2 is a cross-sectional view schematically illustrating a forming material of a first embodiment.

FIG. 3 is a photograph of a cross section of a prototype of a forming material of a first embodiment.

FIG. 4 is a cross-sectional view schematically illustrating a forming material of a variant of a first embodiment.