in which air is blown into the inside of an extruded cylindrical formed article so that the article is expanded and thinned, and the thus-obtained cylindrical formed article made of a film having a thin thickness is cut into a predetermined size to thereby obtain a thin film.

[0004]

Since forming a thin film reduces the film's strength, a raw material for the ethylene-based resin composition that may suppress the reduction of strength is required.

[0005]

Patent Literature 1 discloses that an ethylene film excellent in forming processability and also excellent in film strength can be provided by setting each of the melt flow rate (190°C, 2.16 kg load), density, the ratio of the melt index (I21: 190°C, 2.16 kg load) to the melt index (I2: 190°C, 2.16 kg load), and melt tension (190°C) to a specific value.

Citation List

Patent Literature

[0006]

Patent Literature 1: JP 2018-154803A

Summary

[0006a]

In a first aspect, the present disclosure refers to an ethylene-based resin composition satisfying the following requirements (1) to (4):

(1) a melt flow rate (190°C, 2.16 kg load) is 0.1 g/10 min or more and 1.0 g/10 min or less,

(2) a density is 915 kg/m^3 or more and 935 kg/m^3 or less,

(3) a melt index (I21: 190°C, 21.6 kg load) is 45 or less, and

(4) a ratio of the amount of heat of fusion at 120°C or higher (Hh/Ht), which is the ratio of the amount of heat of fusion (Hh) determined from a DSC curve at 120°C or higher to the total amount of heat of fusion (Ht) determined from a DSC curve of differential scanning calorimetry measurement (DSC measurement), is 10% or more and 55% or less.

[0006b]

In another aspect, the present disclosure refers to a film comprising the ethylene-based resin composition as disclosed herein.

[0006c]

In yet another aspect, the present disclosure refers to a laminated film having a layer composed of the film as disclosed herein.