of ethylene and one or more α-olefins having 4 to 10 carbon atoms, and which satisfies the following requirements (1) to (6):

(1) the density is in a range of 890 kg/m^3 or more and 925 kg/m^3 or less;

(2) the melt flow rate (MFR) at 190°C and 2.16 kg load is in a range of 0.1 g/10 minutes or more and less than 3.0 g/10 minutes;

(3) the ratio [MT/η^* (g/P)] of the melt tension [MT (g)] at 190°C to the shear viscosity [η^* (P)] at 200°C and the angular velocity of 1.0 rad/s is in a range of 1.20×10^{-4} or more and 2.90×10^{-4} or less;

(4) the zero shear viscosity [η_0 (P)] at 200°C and the weight-average molecular weight (Mw) measured by GPC-viscometry (GPC-VISCO) satisfy the following equation (Eq-1):

$$0.01 \times 10^{-13} \times Mw^{3.4} \leq \eta_0 \leq 2.5 \times 10^{-13} \times Mw^{3.4} \quad \text{(Eq-1)};$$

(5) the number-average molecular weight (Mn), the weight-average molecular weight (Mw), and the Z-average molecular weight (Mz), which are measured by GPC-viscometry (GPC-VISCO), satisfy the following equation (Eq-2):

$$-7.0 \leq Mz/Mw - Mw/Mn \leq 2.0 \quad \text{(Eq-2)};$$

(6) the melting curve obtained by differential scanning calorimetry (DSC) has multiple peaks.

CLAIMS

[Claim 1]

An ethylene-α-olefin copolymer which is a copolymer of ethylene and one or more α-olefins having 4 to 10 carbon atoms, and which satisfies the following requirements (1) to (6):

(1) the density is in a range of 890 kg/m^3 or more and 925 kg/m^3 or less;

(2) the melt flow rate (MFR) at 190°C and 2.16 kg load is in a range of 0.1 g/10 minutes or more and less than 3.0 g/10 minutes;

(3) the ratio [MT/η^* (g/P)] of the melt tension [MT (g)] at 190°C to the shear viscosity [η^* (P)] at 200°C and the angular velocity of 1.0 rad/s is in a range of 1.20×10^{-4} or more and 2.90×10^{-4} or less;

(4) the zero shear viscosity [η_0 (P)] at 200°C and the weight-average molecular weight (Mw) measured by GPC-viscometry (GPC-VISCO) satisfy the following equation (Eq-1):

$$0.01 \times 10^{-13} \times Mw^{3.4} \leq \eta_0 \leq 2.5 \times 10^{-13} \times Mw^{3.4} \quad \text{(Eq-1)};$$

(5) the number-average molecular weight (Mn), the weight-average molecular weight (Mw), and the Z-average molecular weight (Mz), which are measured by GPC-viscometry (GPC-VISCO), satisfy the following equation (Eq-2):

$$-7.0 \leq Mz/Mw - Mw/Mn \leq 2.0 \quad \text{(Eq-2)};$$

(6) the melting curve obtained by differential scanning calorimetry (DSC) has multiple peaks.

[Claim 2]

The ethylene-α-olefin copolymer according to claim 1, further satisfying the following requirement (7):

(7) the ratio Mz/Mw of the Z-average molecular weight (Mz) to the weight-average molecular weight (Mw), which are measured by GPC-viscometry (GPC-VISCO), is in a range of 4.0 or more and 15.0 or less.

[Claim 3]

The ethylene-α-olefin copolymer according to claim 1 or 2, further satisfying the following requirement (8):

(8) the intrinsic viscosity [[η] (dl/g)] measured in decalin at 135°C and the weight-average molecular weight (Mw) measured by GPC-viscometry (GPC-VISCO) satisfy the following equation (Eq-3):

$$0.7 \times 10^{-4} \times Mw^{0.776} \leq [\eta] \leq 1.65 \times 10^{-4} \times Mw^{0.776} \quad \text{(Eq-3)}.$$

[Claim 4]

A thermoplastic resin composition comprising: the ethylene-α-olefin copolymer according to any one of claims 1 to 3; and a thermoplastic resin other than the ethylene-α-olefin copolymer.

[Claim 5]

A film comprising the ethylene-α-olefin copolymer according to any one of claims 1 to 3.

[Claim 6]

A multilayer film comprising a layer comprising the ethylene-α-olefin copolymer according to any one of claims 1 to 3.