ABSTRACT

The present invention provides a film including, in at least a part thereof, a layer comprising an ethylene-based resin, which is a copolymer of ethylene and an α-olefin of 4 to 10 carbon atoms, and satisfies the following requirements (1) to (5) at the same time or an ethylene-based resin composition containing the resin;

(I) the melt flow rate at 190°C under a load of 2.16 kg is in the range of 0.1 to 50 g/10 min,

(II) the density is in the range of 875 to 970 kg/m^3,

(III) the ratio of a melt tension at 190°C to a shear viscosity at 200°C and an angular velocity of 1.0 rad/sec is in the range of 1.00×10^{-4} to 9.00×10^{-4},

(IV) the sum of the number of methyl branches and the number of ethyl branches, each number being based on 1000 carbon atoms and measured by ^{13}C-NMR, is not more than 1.8, and

(V) the zero shear viscosity [η_0(P)] at 200°C and the weight-average molecular weight (Mw) as measured by a GPC-viscosity detector method (GPC-VISCO) satisfy the following relational formula (Eq-1):

$$0.01\times10^{-13}\times Mw^{3.4} \leq \eta_0 \leq 4.5\times10^{-13}\times Mw^{3.4} \qquad \text{(Eq-1)}$$