

[Document] ABSTRACT
[Abstract]



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The present invention provides an ethylene copolymer having excellent processability such as film moldability and foaming properties, a process for preparing the copolymer, a resin composition of the ethylene copolymer and uses thereof. [Means for solving]

The ethylene copolymer comprises 40 to 99 % by mol of ethylene units and 1 to 60 % by mol of C_{3-20} α -olefin units, a ratio (M_z/M_w) of a Z average molecular weight (M_z) to a weight-average molecular weight (M_w), as measured by GPC, of 10 to 30, and the ratio (M_z/M_w) and the ratio (M_w/M_n) of a weight-average molecular weight (M_w) to a number-average molecular weight (M_n), as measured by GPC, satisfying the relation $(M_z/M_w) > (M_w/M_n)$; an intrinsic viscosity of 0.5 to 4 dl/g; a ratio ($\eta^*_{0.01}/\eta^*_8$) of a melt viscosity ($\eta^*_{0.01}$) at a shear rate of 0.01 rad/sec, as measured at 190°C, to a melt viscosity (η^*_8) at a shear rate of 8 rad/sec, as measured at 190°C, and the intrinsic viscosity (η) satisfying the relation $(\eta^*_{0.01}/\eta^*_8) \geq 0.843 \times (\eta) + 1.0$; and an absolute value of an activation energy (E_a) of a shift factor of melt viscoelasticity of not more than 4×10^4 J/mol·K.

[Selected Drawing] None



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