

ETHYLENE- α -OLEFIN COPOLYMER, THERMOPLASTIC RESIN COMPOSITION,
FILM, AND LAMINATE

ABSTRACT

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[Problem to be Solved] To provide an ethylene- α -olefin copolymer that is excellent in formability and particularly excellent in mechanical strength compared to conventional ones.

10 [Solution] A copolymer of ethylene and one or more α -olefins having 4 to 10 carbon atoms, satisfying the following requirements (1) to (7):

(1) the density is 890 to 925 kg/m³;

(2) MFR (190°C, 2.16 kg load) is 3.0 to 15.0 g/10 min;

15 (3) MT (melt tension)/ η^* (shear viscosity) is 1.40×10^{-4} to 2.90×10^{-4} g/P;

(4) $0.01 \times 10^{-13} \times M_w^{3.4} \leq \eta_0$ (zero shear viscosity) $\leq 4.5 \times 10^{-13} \times M_w^{3.4}$;

(5) $-2.0 \leq M_z/M_w - M_w/M_n \leq 15$;

20 (6) the number of vinyls and others is 0.1 to 1.0/1000 C; and

(7) a plurality of peaks is present in a melting curve of DSC.

[No Available Figure]