

ETHYLENE- α -OLEFIN COPOLYMER AND COMPOSITION, AND FILM, LAMINATE
AND ELECTRICAL INSULATING MATERIAL COMPRISING SAME

ABSTRACT OF THE DISCLOSURE

An ethylene- α -olefin copolymer having: (A) a density d of 0.86 to 0.96 g/cm³; (B) a melt flow rate MFR of 0.01 to 200 g/10min; (C) a molecular weight distribution Mw/Mn of 1.5 to 4.5; (D) a composition distribution parameter Cb of 1.08 to 2.00; and (E) an orthodichlorobenzene-soluble content X (wt%), a density d (g/cm³) and a melt flow rate MFR (g/10min) at 25°C satisfying that: (i) when the density (d) and the melt flow rate MFR satisfy relationship (I):

$$d - 0.008 \times \log \text{MFR} \geq 0.93 \quad (\text{I})$$

the orthodichlorobenzene-soluble content X satisfies relationship (II):

$$X < 2.0 \quad (\text{II})$$

(ii) when the density d and the melt flow rate MFR satisfy relationship (III):

$$d - 0.008 \times \log \text{MFR} < 0.93 \quad (\text{III})$$

the orthodichlorobenzene-soluble content X satisfies relationship (IV):

$$X < 9.8 \times 10^3 \times (0.9300 - d + 0.008 \times \log \text{MFR})^2 + 2.0 \quad (\text{IV})$$

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