

ABSTRACT

COPOLYMER AND COPOLYMER COMPOSITION

A random copolymer comprising ethylene, an α -olefin and a branched conjugated polyvalent olefin, wherein (i) ethylene, the α -olefin and an iodine value respectively satisfy the following inequalities: $0 < \text{ethylene} < 100$ (% by mol), $0 < \alpha\text{-olefin} < 100$ (% by mol) and $0 < \text{iodine value} < 370$ (g/100 g), (ii) an intrinsic viscosity $[\eta]$ measured in decalin at 135°C of the random copolymer satisfies the following inequality: $0.1 \text{ (dl/g)} < [\eta] < 10 \text{ (dl/g)}$ and (iii) a molecular weight distribution (M_w/M_n) ≤ 5 .