

ABSTRACT OF THE DISCLOSURE
PROPYLENE/ETHYLENE- α -OLEFIN BLOCK COPOLYMER AND
PROCESS FOR PRODUCING THE SAME

A propylene/ethylene- α -olefin block copolymer obtained by block-copolymerizing a polypropylene component with an ethylene- α -olefin random copolymer component, which satisfies conditions of the following terms (I) to (III):

(I) the content of the polypropylene component having an intrinsic viscosity ($[\eta]$) measured in tetralin at 135°C of from 0.5 to 5.0 dl/g is from 5 to 95% by weight;

(II) the content of the α -olefin in the random copolymer component is from 5 to 40 mol%, and the content of the ethylene- α -olefin random copolymer component whose ρ value represented by the following equation:

$$\rho = 2[E] \cdot [A]/[EA]$$

(wherein $[E]$ represents a molar fraction of ethylene, $[A]$ represents a molar fraction of the α -olefin and $[EA]$ represents a molar fraction of a diad chain of ethylene and the α -olefin) is within the range from 0.5 to 1.5 is from 5 to 95% by weight; and

(III) the intrinsic viscosity ($[\eta]$) of the propylene/ethylene- α -olefin block copolymer measured in tetralin at 135°C is from 0.5 to 5.0 dl/g, and a process for producing the above propylene/ethylene- α -olefin block copolymer.