

COPOLYMER OF OLEFIN AND CONJUGATED DIENE, AND PROCESS FOR
PRODUCING THE SAMEAbstract

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Disclosed are: a copolymer having a double bond in a side chain thereof and having substantially no unsaturated bond in the main chain thereof, or a copolymer having a cyclic structure and having substantially no unsaturated bond in the main chain thereof; and a process for synthesizing the copolymer in an economically advantageous manner. The copolymer is produced by copolymerizing at least ethylene and conjugated dienes, wherein the content of constituent units derived from the conjugated dienes is 1 to 90 mol%, the content of a constituent unit derived from the 1,2-addition of a conjugated diene having a double bond in a side chain thereof is 0 to 90 mol%, the content of constituent units derived from the 1,4-addition of the conjugated dienes is 0 to 3 mol%, the content of constituent units derived from the 1,3-addition of the conjugated dienes is 0 to 3 mol%, and the total content of a constituent unit derived from the 1,2-addition of a conjugated diene having a 1,2-cyclopropane skeleton and a constituent unit derived from the 1,2-addition of a conjugated diene having a 1,2-cyclopentane skeleton is 4 to 100 mol%.

No suitable figure.