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Abstract

Diene block copolymer comprising a polyether block, and rubber composition containing same

The invention relates to a diene block copolymer comprising a linear or branched polyether block comprising, at each end of the block, a branch point to which up to three diene elastomer blocks are bonded, characterized in that

a - the copolymer has a Mooney viscosity of at least 10 and at most 100,

b- the compound is composed

of at least 30%, preferably 35%, of branched macromolecules comprising a polyether block to which at least three diene elastomer blocks are bonded,

of at most 70%, preferably 65%, of linear macromolecules,

c - the polyether block has a number-average molar mass ranging from 150 to 5000 g/mol, and

d - each of the branch points consists of a silicon atom.