

METHOD FOR PRODUCING MODIFIED CONJUGATED DIENE RUBBER, MODIFIED CONJUGATED DIENE RUBBER, AND RUBBER COMPOSITION

ABSTRACT

A method for producing a conjugated diene rubber which can be used as a raw material for a crosslinked rubber which is used for such as tire treads and is capable of enhancing fuel-saving performance is provided.

The method is a method for producing a modified conjugated diene rubber comprising: (a) a step in which a conjugated diene polymer having an alkali metal or alkaline earth metal active end and obtained by polymerizing a conjugated diene compound or by polymerizing a conjugated diene compound with an aromatic vinyl compounds is reacted with a first alkoxysilane compound which has an alkoxysilyl group having two or more alkoxy groups and has a group protected by a protecting group wherein deprotection is possible to obtain a modified conjugated-diene polymer having an alkoxysilyl group; and (b) a step in which the modified conjugated-diene polymer is reacted with a second alkoxysilane compound which has an alkoxysilyl group.