

Method for Producing Hydrogenated Conjugated Diene Polymer,
Hydrogenated Conjugated Diene Polymer, Polymer Composition,
Crosslinked Polymer, and Tire

Abstract

A hydrogenated conjugated diene-based polymer is produced by a method comprising: reacting a conjugated diene-based polymer having an active terminal with a polyorganosiloxane having two or more specific functional groups each being at least one type selected from the group consisting of an epoxy group, an alkoxy group, a carbonyl group, a 2-pyrrolidonyl group, a vinyl group, and a halogen atom; and hydrogenating a modified conjugated diene-based polymer prepared through the reaction. Provided is a polymer composition that comprises a hydrogenated conjugated diene-based polymer produced by the method, silica, and a crosslinking agent. Provided is a crosslinked polymer produced through crosslinking of the polymer composition. Provided is a tire obtained by employing the crosslinked polymer as a tread material, a sidewall material, or both are provided.

[No Figure]