

Abstract

MODIFIED CONJUGATED DIENE-BASED POLYMER, RUBBER
COMPOSITION AND TIRE

A modified conjugated diene-based polymer, including a coupling polymer,

wherein a ratio of the coupling polymer, obtained by gel permeation chromatography (GPC), is 30% by mass or more and less than 70% by mass in the entire modified conjugated diene-based polymer, and a modification ratio obtained by adsorption GPC is 30% by mass or more and less than 70% by mass in the entire modified conjugated diene-based polymer,

when a peak top molecular weight, obtained by the GPC, of the coupling polymer of the modified conjugated diene-based polymer is represented by M_{p1} and a peak top molecular weight of a non-coupling polymer is represented by M_{p2} , $(M_{p1}/M_{p2}) \geq 3.4$, and

a shrinking factor (g') is less than 0.60.