

Abstract

MODIFIED CONJUGATED DIENE-BASED POLYMER AND PRODUCTION
METHOD THEREFOR, RUBBER COMPOSITION AND TIRE

In a modified conjugated diene-based polymer, a ratio of a coupling polymer, obtained by gel permeation chromatography (GPC), is 70% by mass or more based on a total amount of the modified conjugated diene-based polymer, and a modification ratio obtained by adsorption GPC is 70% by mass or more based on a total amount of the modified conjugated diene-based polymer, and when Mooney viscosity ML_{1+4} (100°C) measured at 100°C is represented by ML and a weight average molecular weight obtained by GPC is represented by M_w , $ML \leq 1.8 (M_w \times 10^{-4}) - 31.5$, and Mooney viscosity ML_{1+4} (100°C) measured at 100°C is 30 to 150.

Figure 1