

Abstract

MODIFIED CONJUGATED DIENE-BASED POLYMER AND RUBBER
COMPOSITION THEREOF, AND TIRE

A modified conjugated diene-based polymer
containing:

having a weight average molecular weight of 20×10^4
or more and 300×10^4 or less,

having a star-branched structure with a conjugated
diene-based polymer chain bonded to a modifier residue,

wherein the modifier residue has at least 4 silicon
atoms, and alkoxy groups and/or hydroxyl groups and

the conjugated diene-based polymer chain is bonded
to the silicon atom,

wherein the number of alkoxy groups and/or hydroxyl
groups in the modifier residue is larger than the number
of the silicon atoms on average.