

ABSTRACT

OIL-EXTENDED CONJUGATED DIENE-BASED POLYMER AND RUBBER COMPOSITION COMPRISING THE SAME

The present invention relates to an oil-extended
5 conjugated diene-based polymer or an oil-extended modified
conjugated diene-based polymer, which has excellent wet skid
resistance and abrasion resistance in a balanced way, and a
rubber composition including the same, and by controlling the
microstructure of the polymer such that a full width at half
10 maximum (FWHM) value of a $\tan \delta$ peak shown in a temperature
range of -100°C to 100°C becomes 20°C or higher in a $\tan \delta$
graph in accordance with temperature, derived from dynamic
viscoelasticity analysis by an Advanced Rheometric Expansion
System (ARES), and by including a vegetable oil in a polymer,
15 excellent viscoelasticity behavior properties may be shown,
and accordingly, the improvement of overall physical
properties may be expected.

Figure 1