

Abstract

VULCANIZED SOLID RUBBER

There is provided vulcanized solid rubber, which comprises a vulcanized product of an oil-extended copolymer comprising:

(i) 100 parts by weight of an ethylene- α -olefin-non-conjugated diene copolymer satisfying the following requirements (1) to (4), and

(ii) 10 to 90 parts by weight of an extender oil:

(1) a weight ratio of an ethylene unit to an α -olefin unit in the ethylene- α -olefin-non-conjugated diene copolymer is from 73/27 to 40/60,

12 (2) an iodine value of the ethylene- α -olefin-non-conjugated diene copolymer is from 20 to 36,

(3) Mooney viscosity (ML_{1+4} ($121^{\circ}C$)) measured according to JIS-K-6300 of a blend containing 100 parts by weight of the ethylene- α -olefin-non-conjugated diene copolymer and 20 parts by weight of an extender oil is from 100 to 180, and

18 (4) a ratio of weight average molecular chain length/number average molecular chain length measured by gel permeation chromatography of the ethylene- α -olefin-non-conjugated diene copolymer is from 3 to 5.



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