

HIGH-MOONEY NDBR HAVING MOONEY JUMP

Abstract

- 5 The invention relates to methods for achieving a step increase in the Mooney viscosity in production of high-molecular-weight polybutadiene having > 95% by weight content of cis-1,4 units and < 1% by weight 1,2-vinyl content, characterized in that
- 10 1) at least one monomer selected from butadiene and/or isoprene is polymerized at temperatures of from -20°C to 150°C in the presence of at least one inert, organic solvent and in the presence of at least one catalyst based on neodymium carboxylate,
- 2) the polymerization is then terminated by addition of protic compounds and
- 3) then sulphur chlorides are added to the polymer, and prior to addition these sulphur chlorides are treated with a carboxylic acid, fatty acid and/or fatty acid ester.