

Title (en)
RESIN-EXTENDED MODIFIED DIENE RUBBER

Title (de)
HARZVERLÄNGERTER MODIFIZIERTER DIENKAUTSCHUK

Title (fr)
ELASTOMERE DIENIQUE MODIFIE ETENDU A LA RESINE

Publication
EP 4284662 A1 20231206 (FR)

Application
EP 22709344 A 20220114

Priority
• FR 2100886 A 20210129
• FR 2022050080 W 20220114

Abstract (en)
[origin: WO2022162293A1] The invention relates to a resin-extended modified diene rubber obtainable by a process involving at least: an anionic polymerization step, in an organic solvent, of at least one conjugated diene monomer having 4 to 12 carbon atoms in the presence of a polymerization initiator to form a living diene rubber having a number average molar mass Mn1 measured by triple detection size exclusion chromatography; a step of modifying the living diene rubber having the number average molar mass Mn1 in the organic solvent by reacting same with a modifier to form a modified diene rubber having a number average molar mass Mn2 measured by triple detection size exclusion chromatography and a glass transition temperature, measured according to ASTM D3418-08, within a range of -95° C to -70° C; a step of adding at least one plasticizing resin to the organic solvent comprising the modified diene rubber; a step of removing the organic solvent to obtain the resin-extended modified diene rubber; the resin-extended modified diene rubber having a ratio Mn2/Mn1 strictly greater than 1.00 and a minimum Mn2 of 200,000 g/mol.

IPC 8 full level
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CPC (source: EP KR US)
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C-Set (source: EP)
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