

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  
**B60C 1/00** (2006.01); **C08C 19/22** (2006.01); **C08C 19/24** (2006.01); **C08C 19/25** (2006.01); **C08C 19/26** (2006.01); **C08F 236/06** (2006.01); **C08L 15/00** (2006.01)

CPC (source: EP KR US)  
**B60C 1/00** (2013.01 - EP); **B60C 1/0016** (2013.01 - EP KR US); **B60C 11/0008** (2013.01 - US); **C08C 19/22** (2013.01 - EP KR US); **C08C 19/24** (2013.01 - EP KR); **C08C 19/25** (2013.01 - EP KR US); **C08C 19/26** (2013.01 - EP KR); **C08F 236/06** (2013.01 - EP); **C08F 236/10** (2013.01 - KR); **C08L 9/06** (2013.01 - US); **C08L 15/00** (2013.01 - EP KR); **B60C 2011/0025** (2013.01 - US)

C-Set (source: EP)  
**C08L 15/00 + C08L 45/00 + C08L 91/00 + C08K 3/36 + C08K 5/548 + C08K 3/04 + C08K 3/22 + C08K 5/09 + C08K 5/18 + C08K 5/31 + C08K 3/06 + C08K 5/47**

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Designated extension state (EPC)  
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