

HYDROCARBON RESIN AND PROCESS FOR PRODUCTION THEREOF

Abstract

5 Presented and described is a hydrocarbon resin obtainable by thermal polymerization of a cyclic diolefin component comprising a cyclic diolefin compound with an aromatic component comprising indene and/or C₁₋₄-alkylindene, with the hydrocarbon resin having a polydispersity index (PDI) of 1 to less than 2.3. Further described is a production process for the hydrocarbon resin, wherein a monomer mixture which comprises an aromatic component comprising indene and/or C₁₋₄-alkylindene and a cyclic diolefin component comprising a cyclic diolefin compound is polymerized by heating to a polymerization temperature of at least 180°C to give a product stream comprising hydrocarbon resin, and oligomers which comprise units originating from the cyclic diolefin compound and/or units originating from the aromatic component are separated from the product stream and returned to the monomer mixture. Lastly described are a hydrogenated hydrocarbon resin, a process for production thereof, and the use of the hydrocarbon resin and of the hydrogenated hydrocarbon resin.

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[Fig. 1]