

Title (en)

RECYCLING METHOD FOR CONTAMINATED POLYOLEFINS

Title (de)

RECYCLING-VERFAHREN FÜR VERUNREINIGTE POLYOLEFINE

Title (fr)

PROCÉDÉ DE RECYCLAGE POUR POLYOLÉFINES CONTAMINÉES

Publication

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Application

**EP 21840814 A 20211216**

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Abstract (en)

[origin: WO2022129309A1] The invention relates to a recycling method for producing a polyolefin recyclate, involving the process of removing contaminants from a contaminated polyolefin material, wherein a contaminated polyolefin material is soaked in a solvent in a soaking step in order to dissolve contaminants present in the contaminated polyolefin material in the solvent and remove the solvent and the contaminants dissolved in the solvent from the polyolefin material. According to the invention, prior to the soaking step, a washing step is carried out using water, cleaning agents, and/or lye. The contaminated polyolefin material is changed by the soaking/solvent recycling method such that (i) more than 90% of the low molecular chains below 2000 Dalton are removed or washed out, and the average molecular chain length of the polyolefin recyclate is therefore increased, and (ii) the melt flow rate (MVR) of the polyolefin recyclate is reduced to a specified MVR.

IPC 8 full level

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