

Title (en)  
POLYMER COMPOSITION AND PROCESS FOR MAKING THE SAME

Title (de)  
POLYMERZUSAMMENSETZUNG UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
COMPOSITION POLYMÈRE ET SON PROCÉDÉ DE PRÉPARATION

Publication  
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Application  
**EP 19808846 A 20191129**

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Abstract (en)  
[origin: WO2020109556A1] The present invention relates to a polymer composition, especially for pipe, and a process for making the composition. This process for making a polymer composition for pipe comprises polymerizing ethylene in at least two slurry reactors and at least one gas phase reactor connected in series, whereby the polyethylene composition comprises a) an ethylene copolymer as fraction (A), and b) an ethylene homo- or copolymer as fraction (B), with fraction (A) having a lower molecular weight than fraction (B), wherein a single-site catalyst (SSC) is used in the polymerisation of at least one of fractions (A) and/or (B), the composition having (i) a density of between 932 and 955 kg/m<sup>3</sup>, and (ii) a MFR<sub>5</sub> (at 190 °C / 5.00 kg) of between 0.5 and 3.5 g/10 min, wherein fraction (A) comprises two fractions (A1) and (A''), whereby fraction (A1) is produced in a first slurry loop reactor and fraction (A'') is produced in a second loop reactor.

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