

Title (en)

HIGH MELT STRENGTH POLYPROPYLENE COMPOSITION AND PROCESS FOR MANUFACTURING THEREOF

Title (de)

HOCHSCHMELZFESTE POLYPROPYLENZUSAMMENSETZUNG UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

COMPOSITION DE POLYPROPYLENE À HAUTE RÉSISTANCE À L'ÉTAT FONDU ET SON PROCÉDÉ DE FABRICATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2021133203A1] The present invention relates to a polypropylene composition that is especially suitable for making articles by foaming. The polyethylene composition according to the invention comprises: a random propylene copolymer; a vinyl monomer; a peroxide initiator; an antioxidant and/or a heat stabilizer. Furthermore, the composition may comprise a propylene homopolymer, a polyolefin elastomer, and other additives. The composition is preferably manufactured by pre-blending the first 3 components at a certain temperature and holding time to produce a concentrate, a so-called pre-blend. Blending and processing into a homogeneous melt are carried out in special mixing equipment and an extruder. The technical result of the present invention is to obtain of a high melt strength polypropylene composition by reactive extrusion with melt strength values of between 18 and 43 cN, in combination with improved melt flow indices of the modification products: MFI230° c/2.16kg ranging from 0.5 to 3.0 g/10 min.

IPC 8 full level

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