

Title (en)

ETHYLENE/STYRENE POLYMER SEALANT LAYER FOR USE IN LIQUID PACKAGING

Title (de)

SIEGELSCHICHT AUS ETHYLEN/STYROL-KUNSTSTOFF ZUR VERWENDUNG IN FLÜSSIGKEITSVERPACKUNGEN

Title (fr)

COUCHE DE SCELLEMENT CONSTITUEE D'UN POLYMERE ETHYLENE-STYRENE POUR LE CONDITIONNEMENT DE LIQUIDES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9850230A1] This invention relates to the use of a heat sealable multilayer film in manufacturing pouches for containing flowable materials which pouches are in tubular form and have transversely heat sealed ends, said film comprising at least one layer comprising about 10 % by volume of the overall film structure and is made from an ethylene-styrene copolymer obtained using a single site catalyst polymerization process and one or more of the following layers: (a) at least one interpolymer selected from interpolymers of ethylene and one or more C3-C20 alpha -olefins made by polymerization processes using single-site catalyst, non-single-site catalyst and mixtures of such catalysts, and blends thereof, said interpolymers having a density in the range of about 0.87 to about 0.940 gm/cc and a melt index of from about 0.2 to about 20 dg/minute and comprising about 10 to about 90 % by volume of the overall film structure; (b) at least one barrier layer selected from nylon polymers comprising about 5 to about 30 % by volume of the overall film structure; polyethylene terephthalate polymers comprising about 5 to about 15 % by volume of the overall film structure; amorphous nylon comprising about 5 to 30 % by volume of the overall structure; ethylene vinyl alcohol comprising about 5 to about 25 % by volume of the overall film structure; (c) at least one tie layer comprising about 5 to about 15 % by volume of the overall film structure and selected from ethylene vinyl acetate polymer, ethylene acid copolymers, ionomers or anhydride functionalized ethylene copolymers; and (d) at least one high pressure ethylene homopolymer.

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