

Title (en)

IMPROVED BARRIER COMPOSITIONS FOR MULTILAYER EXTRUSION AND BARRIER PERFORMANCE

Title (de)

VERBESSERTE SPERRZUSAMMENSETZUNGEN FÜR MEHRSCICHTEXTRUSION UND SPERRLEISTUNG

Title (fr)

COMPOSITIONS POLYESTER AMELIOREES POUR UNE EXTRUSION MULTICOUCHE ET UNE EFFICACITE DE LA COUCHE BARRIERE

Publication

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Application

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Abstract (en)

[origin: WO0192007A2] Improved multi-layer coextruded blow-molded objects (such as fuel containers) having at least a barrier layer and a support layer are disclosed together with improved methods for preparing such objects. The barrier layer includes an amount of modified polyolefin having approximately the same density as the support layer, wherein the modified polyolefin is prepared by grafting an unsaturated carboxylic acid or a derivative thereof to the polyolefin, the modified polyolefin being added in an amount such that the gas-barrier layer sufficiently adheres to the adjacent layer and such that the gas barrier properties of the fabricated article are still adequate. The present invention also relates to modification of the rheology of base resins, such as PET (a preferred material for the barrier layer), so that they more closely match the rheology of high density polyethylene (a preferred material for the support layer).

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