JAPAN assigned to Asahi Glass Company Ltd; Iwaki Glass Company Ltd

A fluorine-containing polymer composition comprising a polymer having a functional group and a fluorine-containing aliphatic cyclic structure dissolved in a solvent mixture of an aprotic fluorine-containing solvent and a protic fluorine-containing solvent.

5498680

POLYMERIZATION PROCESS IN AQUEOUS EMULSION OF FULUORINATED OLEFINIC MONOMERS

Abusleme Julio A; Maccone Patrizia Saronno, ITALY assigned to Ausimont SpA

In a process of (co)polymerization in aqueous emulsion of fluorinated olefinic monomers it is added to the reaction medium a microemulsion of fluoropolyoxyalkylenes having hydrogenated end groups and/or hydrogenated repetitive units. A remarkable reduction in the reaction induction period is so obtained, with formation of a product with improved mechanical properties and higher thermal and chemical resistance.

5498682

PERFLUORODIOXOLES, THE PREPARATION PROCESS THEREOF, AND HOMOPOLYMERS AND COPOLYMERS OBTAINED THEREFROM

Navarrini Walter; Tortelli Vito; Colaianna Pasqua; Abusleme Julio Milan, ITALY assigned to Ausimont SpA

The invention relates to new thermoprocessable copolymers of tetrafluoroethylene constituted by perfluoromethylvinylether (0.5-13% by weight), a fluorinated dioxole (0.05-3%) and tetrafluoroethylene (difference to 100%), particularly useful for coating electric cables by melt extrusion. It relates also to new perfluorodioxoles of formula (*See Patent for Chemical Structure*) wherein RF is a C1-C5 perfluoroalkyl radical; X1 and X2 are, independently from each other, F or CF3; and their homopolymers and copolymers, in particular thermoprocessable copolymers as defined above.

5498719

DIASTEREOSELECTIVE PROCESS LEADING TO A KEY INTERMEDIATE FOR THE PREPARATION OF FLUORINATED REVERSE TRANSCRIPTASE INHIBITORS

Marquez Victor E; Driscoll John S; Siddiqui Magbool Gaithersburg, MD, UNITED STATES assigned to The United States of America as represented by the Secretary of the Department of Health & Human Services

The present invention provides a novel synthetic route to a key precursor, i.e., an (S,S)- alpha-fluoro-2,2-dimethyl-1,3-dioxolane-4-propanoic acid ester useful in the preparation of FddA and FddC. The instant diastereoselective process utilizes a novel intermediate which contains a chiral auxiliary. The chiral auxiliary can be any chiral auxiliary moiety such as for example an auxiliary containing a substituted oxazolidinone group. The intermediate containing the chiral auxiliary is fluorinated utilizing a fluorination method applied for the first time in the synthesis of fluorinated sugars to give a fluorinated intermediate which after removal of the chiral group provides the desired key intermediate. In summary, in the instant process, a fluorine is introduced diastereoselectively into an intermediate via the reaction of a chiral enolate with an electrophilic fluorinating agent and the intermediate which is fluorinated is derived from mannitol.

5498730

FLUORINATED ALKYL COMPOUND DERIVATIVES AND PROCESS FOR PREPARING SAME

Cho Kwang-Yu; Kim Bum-Tae; Kim Young-Su; Min Yong-Ki; Park No-Kyun;Jeong In-How Daejeon, REPUBLIC OF KOREA assigned to Korea Research Institute of Chemical Technology

The present invention provides fluorinated alkyl