

Title (en)
SIZING COMPOSITION FOR CHARGES USED IN THERMOPLASTIC POLYMERIC MATERIAL REINFORCEMENT, REINFORCED POLYMERIC MATERIALS AND METHOD OF MANUFACTURE

Title (de)
SCHLICHTEZUSAMMENSETZUNG FÜR ZUR VERSTÄRKUNG THERMOPLASTISCHER POLYMER MATERIALIEN VERWENDETE LADUNGEN, VERSTÄRKT POLYMER MATERIALIEN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
COMPOSITION D'ENCOLLAGE POUR CHARGES UTILISÉES DANS UN RENFORT DE MATÉRIAU POLYMÈRE THERMOPLASTIQUE, MATÉRIAUX POLYMÈRES RENFORCÉS ET PROCÉDÉ DE FABRICATION

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Abstract (en)
[origin: EP2554594A1] The invention relates to an aqueous sizing composition for reinforcing charges, preferably glass fibers, comprising a silane coupling agent, an epoxy film forming polymer comprising 2-8 reactive epoxy groups per chain and compatible with thermoplastic polyester matrix resin selected from PET and PBT, and a hypophosphite in an amount of 5 to 30 w% of the composition, preferably 7 to 25 w%, more preferably 10 to 20 w% and most preferably 12 to 18 w% of the composition. A thermoplastic polyester resin reinforced with glass fibers coated with a sizing composition of the invention shows improved resistance to staining and improved tensile elongation at break. The sizing composition further improves processability of the sized fibres.

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