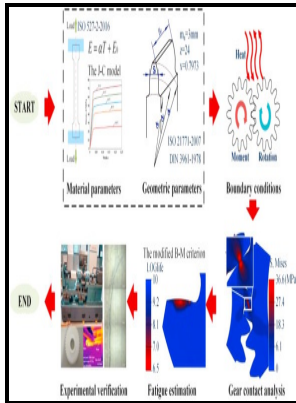


Influence of injection moulding conditions on the fatigue behaviour of an acetal copolymer

Plastics Institute - Effect of the compatibility on toughness of injection



Description: -

-influence of injection moulding conditions on the fatigue behaviour of an acetal copolymer

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Notes: Paper 9 from the conference Designing to Avoid Mechanical Failure, 8-10 Jan. 1973, Cranfield Institute of Technology.

This edition was published in 1973



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The simulation and experiment research on contact fatigue performance of acetal gears

Gima, Polymer, 37, 5375 1996. Findings: After the first injection mouldings, minor decreases ca.

The influence of polyoxymethylene molar mass on the oxidative thermal degradation of its nanocomposites with hydroxyapatite

Effect of miscibility and previous degradation on final performance of industrial blends, European Polymer Journal 41 2005 , 2150-2160.

Some effects of multiple injection moulding on selected properties of ABS

Setting dwell time depends on the time needed to seal the gate of injection mold once the gate is solidified. Biopolymers: lignin, proteins, bioactive nanocomposites. Król P, Pielichowska K, Byczyński L.

Tips to select the right material for injection molding

Smith, Reprocessing acrylonitrile-butadiene-styrene plastics: structure — property relationships, Polymer Engineering Science 47 2007 120-130. The results of the DSC examination are summarized in Table 8 as average and standard deviation of the thirteen measurements conducted per sample position.

Effect of the compatibility on toughness of injection

Due to its different properties in different directions, PET is difficult to mold to extremely close tolerances. Many companies produce nylon having own manufacturing processes, exclusive formulas and trade names. In addition to the long period and layer thicknesses, the volumetric degree of crystallinity was calculated using 1.

Acetals

Nylon requires more strict plastic molding technology.

Wear resistance of injection

Several authors have reported that a positive correlation exists between hardness and elastic modulus of material. The PLM analysis was conducted on the plates only.

Effect of stabilizer on fatigue resistance of a polyoxymethylene (acetal) copolymer, Journal of Materials Science

However, these comonomer units strongly affect the thermal and chemical behavior of the copolymer. It simply shortens the time frame required for the part to reach equilibrium from weeks or even months to a couple of days.

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