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POLYOXYMETHYLENE MOULDING COMPOSITIONS WITH IMPROVED
HEAT STABILITY AND STABILITY AGAINST DISCOLORATION

Abstract

Polyoxymethylene moulding compositions of the invention
comprise

- (i) at least one polyoxymethylene homo- and/or copolymer,
- 5 (ii) at least one conventional additive and
- (iii) at least one polymeric plastics material as an
additive for improving the heat stability.

and are distinguished in that

- (iii) is a copolymer which is obtainable by polymerization
10 in bulk of a mixture of

- A) 60 - 90 parts of one or more (meth)acrylates,
- B) 10 - 40 parts of one or more (meth)acrylamides,
- C) per 100 parts of A) + B), > 0.2 to 5 parts of
molecular weight regulator and
- 15 D) per 100 parts of A) + B), up to 2 parts of
lipophilic free radical polymerization
initiators,

and in that

- the moulding composition comprises (iii) in an amount of
20 0.01 to 2 parts, based on the sum of (i) + (ii)
where all the amounts relate to parts by weight (wt/wt) and
A) and B) together must give 100 parts.

By the use of relatively highly regulated bulk co- or
terpolymerization for stabilizing POM moulding
25 compositions, advantages over the use of emulsion or
suspension bead polymerization result in the heat
stability, in the stability against discoloration and/or in
the residual monomer contents of POM moulding compositions
and shaped articles and shaped films produced therefrom.