

ABSTRACT**POLYMER POWDER WITH PHOSPHONATE-BASED FLAME RETARDANT,
PROCESS FOR ITS PRODUCTION, AND MOLDINGS PRODUCED
FROM THIS POLYMER POWDER**

The present invention relates to a polymer powder composed of polyamide or of copolyamides, which also comprises flame retardant, in particular phosphonates, to a layer-by-layer process which selectively melts regions or selectively binds them, and also to moldings produced from this polymer powder.

Compared with conventional products, the moldings constructed using the powder of the invention exhibit marked advantages in flammability and combustibility and drop behavior, particularly with respect to UL (Underwriters Laboratories) classification.

Furthermore, moldings produced from polymer powder of the invention have adequately good mechanical properties when compared with moldings based on polymer powders without flame retardant, in particular in terms of modulus of elasticity and tensile strain at break. In addition, these moldings also have a density close to that of injection moldings.

FIGURE : NONE