

Title (en)  
FLAME-PROOF, PARTIALLY AROMATIC POLYAMIDES

Title (de)  
FLAMMGESCHÜTZTE, TEILAROMATISCHE POLYAMIDE

Title (fr)  
POLYAMIDES PARTIELLEMENT AROMATIQUES IGNIFUGES

Publication  
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Application  
**EP 22768722 A 20220823**

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Abstract (en)  
[origin: WO2023025741A1] The present invention relates to inherently flame-resistant, partially aromatic polyamides with the polyamide units AB/AC/AE/DB/DC/DE/F, characterised in that, besides the polyamide units AC, at least one further polyamide unit is selected from the group consisting of the polyamide units AB, AE, DB, DC, DE and F, the monomer units A, B, C, D, E and F being derived from the following molecules, which are present in amidically bonded form in the polyamide X: A: aliphatic diamines; B: aromatic phosphorus-free dicarboxylic acids; C: phosphorus-containing, aromatic dicarboxylic acids according to formula (1), (2) and/or (3); D: diamines with aromatic structural units; E: aliphatic dicarboxylic acids; F: aminocarboxylic acids, lactams. The invention also relates to flame-proof moulding compounds based on flame-retardant polyamides, and to moulded articles formed from the polyamides or polyamide moulding compounds according to the invention.

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