

Title (en)

Panels with antinoise and antifragmentation properties on the basis of acrylic glass, process for their preparation and use thereof

Title (de)

Tafel mit Lärm- und Splitterschutzeigenschaften auf der Basis von Kunstglas, Verfahren zu ihrer Herstellung und Verwendung dafür

Title (fr)

Panneaux avec propriétés anti-bruit et anti-fragmentation sur la base de verre acrylique, leur processus de préparation et utilisation correspondante

Publication

**EP 1936035 A1 20080625 (EN)**

Application

**EP 07468012 A 20071207**

Priority

SI 200600290 A 20061222

Abstract (en)

The present invention relates to panels on the basis of polymethylmethacrylate (so-called acrylic glass) with embedded reinforcing polymer monofilament fibres in the form of a three-dimensional fibre entanglement, wherein the reinforcing polymer fibres are embedded into the polymethylmethacrylate matrix in such a manner that they are oriented in all directions and distributed apparently uniformly in all directions, so that the fibres are apparently uniformly distributed essentially throughout the entire cross-section of the panel i.e. throughout its entire volume. Particularly, the present invention relates to polymethylmethacrylate panels with included polyamide fibers in the form of a three-dimensional fibre entanglement. The present invention also relates to a process for manufacturing such panels and to the use thereof, especially as antinoise elements along roads with good antifragmentation properties.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- EP 0407852 A2 19910116 - DEGUSSA [DE]
- EP 0826832 A2 19980304 - ATOHAAS HOLDING CV [NL]
- EP 1119662 B1 20060621 - ROEHM GMBH [DE]
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Citation (search report)

- [DA] WO 0020690 A1 20000413 - ROEHM GMBH [DE]
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- [A] DE 3824077 C1 19891109

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