

Abstract**PEI particle foams for applications in aviation interiors**

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Polymer foams based on polyetherimides (PEIs) fulfil the legal specifications demanded by the aviation industry for aircraft interiors. Specifically the demands on fire characteristics, stability to media and mechanical properties constitute a great challenge here. According to the prior art, suitable polymer foams are produced as semifinished products. Reprocessing to give shaped articles is uneconomic in terms of time and material exploitation, for example by virtue of large amounts of cutting waste. The invention solves this problem in that the material which is suitable in principle can be processed to give particle foam mouldings. These mouldings can be produced without reprocessing in short cycle times and hence economically. Furthermore, this gives rise to new means of functional integration, for example by direct incorporation of inserts etc. in the foam, and with regard to freedom in terms of design.

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[No figure]