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Integral Foam Moulding
of Light Metals Carolin
Kö rner, Markus

Hirschmann And Harald
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Materials Science,
WTM, University
Erlangen, 91058

Erlangen, Germany
Integral foam moulding
(IFM) is an economical
way to produce
castings with
integrated cellular
structure, i.e. a solid
skin and a foamed

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**Integral Foam
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The development of cost-effective techniques to produce metal parts with integrated cellular structure is the newly developed process of integral foam molding. This book shows in three parts the technology, the fundamentals and the simulation models for

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the Integral Foam

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Metals. Part I:

“Technology” shows

for the first time that

foaming of metals is

possible by applying

molding techniques

very similar to polymer

integral foam molding.

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technology, the

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foam evolution starting

from nucleation until

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structure, i.e. a solid skin and a foamed core. IFM has been known for polymers for more than four...

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more than four
decades and is well
established in

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homogenous closed cell structure. It has a smooth, silky and hard surface finish on both sides. It has many of

the same characteristics of standard foam PVC

however, integral foam has surfaces which are manufactured by a rapid cooling process therefore the sheets are more suitable for applications where impact resistance or hygienic qualities are a

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(engineering Materials)

... techniques to
produce metal parts
with integrated cellular
structure is the newly
developed process of
integral foam molding.
Integral foam consists

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of a solid skin and a c-

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fundamental

construction principle

...

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To this end, integral foam parts were produced with varying delay times between ca. 30 and 130 ms resulting in different

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dense skin thicknesses

where foam formation

was impossible due to

a solid phase fraction

exceeding a certain

percentage λ at the

moment of mold

expansion and pore

growth initiation. This

leads to a

characteristic so-called

solidification curve with

an axis intercept and

slope depending on the

die temperature and

other chosen process

parameters (see Fig.

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4).

Aluminum Integral Foam Molding Process | Improving Casting ...

Soft integral foams made out of foamed thermoplastic elastomers can be used in a two-component foam injection molding process to fabricate so-called soft touch components. Varying the integral foam

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**Injection moulded
Structural Foams
with high Flexural ...**

Integral foam molding represents an industrially highly important approach, developed to produce metal foam parts with a dense metal skin and gradual transition to a

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foamed core in one
step. 50 The...

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Cozylkx 90"x 3" Self
Adhesive Flexible Foam
Molding Trim, 3D

Sticky Decorative Wall
Lines Wallpaper Border
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DIY Decoration, White
2.8 out of 5 stars 275
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Foam ...

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installed your molding
and caulked the seams

in one easy step!

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