

Breathable Mould Material For Thermoforming

METAPOR micro-porous, air- permeable aluminium delivers advanced solutions for many thermoforming applications.

METAPOR eliminates the need to drill vacuum holes, expanding technical capabilities of the thermoforming process at a lower cost.

METAPOR material has consistent porosity which offers unparalleled design flexibility and new ways to optimize performance of thermoform tooling.



Prototype & Production Tooling

Quick prototype tooling with METAPOR accelerates product development and minimizes costly production problems. In high production applications, METAPOR cavities & inserts are often used in conjunction with water-cooled aluminium bases.

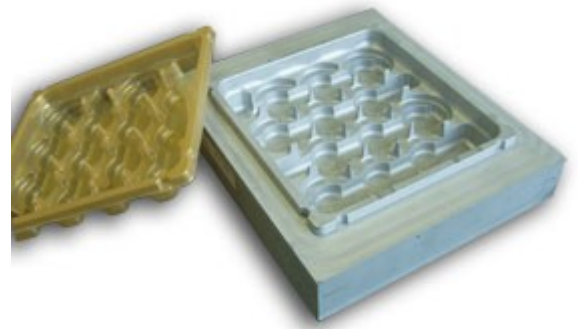


Faster Air Evacuation

Rapid **and even** air evacuation assures that the plastic remains within its temperature formability window resulting in reduction of stresses and better mechanical properties..

Unlimited Design Intricacy

Highly detailed moulds, engraved inserts, and other intricate features are quickly produced with METAPOR, since there is no need to drill vacuum holes.



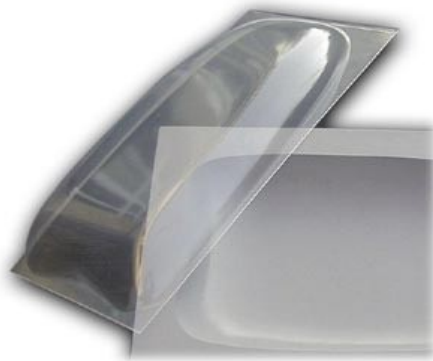
High Definition & Accuracy

Even porosity on all surfaces of METAPOR results in extremely sharp definition and accuracy of formed components **without deformation**



Flat Surfaces

METAPOR is often used for large flat surfaces and bottom inserts to eliminate trapped air and related waviness.



Surface Quality

Absence of drilled vacuum holes, eliminates surface imperfections on transparent and highly cosmetic parts.

| Product | Application areas | Main applications | Density (g/cm ³) | Maximum mould temperature (°C) | Flexural strength (N/mm ²) | E-module (N/mm ²) |
|--------------|--|---------------------------------------|------------------------------|--------------------------------|--|-------------------------------|
| AL BF 100 | Production and prototype tools | PS, ABS, PVC, PET, PE | 1.8 | 108 | 56 | 9.000 |
| AL HD 100 | Production tools for transparent parts | Transparent Twin-Sheet, acrylics, PVC | 1.9 | 108 | 43.6 | 9.200 |
| AL HD 210 | High temperature production tools | PVC, PE, PC, transparent parts | 1.9 | 210 | 43 | 10.800 |
| CE 100 WHITE | Prototyping | PS, PVC, PET | 1.7 | 100 | 28.5 | 14.500 |