Aircell®
by VACUform

- Different film colors in one panel
- High compressive and impact strength
- Patented 3D structure
- Smooth surface
- Our Aircell® hollow chamber plates consist of three precisely aligned film layers. Thanks to our patented thermoforming process, the middle layer achieves a unique 3-dimensional structure.

Aircell® features

- Food-safe
- Individual color design
- Surface coating wiith textile, foam, fleece
- Surface coating with anti-slip (TPE)
- Edges open or closed
- Deep drawn air chamber panels made of PP, PS, ABS, HDPE
- Ultra-light with extreme stability
- Material thicknesses 3 to 30 mm
- Thermal and acoustic insulating
- Optional: execution in ESD

100 % Recyclable

Weather and moisture resistant

Corrosion and rot-proof

Weights and volumes

Type	3/1000	5/1500	5/2000	9/2300	10/2500	10/3000	10/4000	15/5000	16/5000
Total thickness (mm)	3 ± 0,4	5 ± 0,4	5 ± 0,4	9 ± 0,4	10 ± 0,4	10 ± 0,4	10 ± 0,4	15 ± 0,5	16 ± 0,5
Surface weight (g/m^2)	1000 ± 50	1500 ± 60	2000 ± 100	2300 ± 100	2500 ± 100	3000 ± 100	4000 ± 150	5000 ± 200	5000 ± 200

Physical properties

Type	3/1000	5/1500	5/2000	9/2300	10/2500	10/3000	10/4000	15/5000	16/5000
Bending force max. (F max. in N)	≥ 45	≥ 100	≥ 150	≥ 250	≥ 400	≥ 450	≥ 650	≤ 900	≤ 800
Deflection at F max. (mm)	≥ 4,5	≥ 4,5	≥ 5,5	≥ 4,5	≥ 5	≥ 5	≥ 6	≤ 8	≥ 6,5
Elasticity module (MPa)	≥ 0,15	≥ 0,5	0,5	≥ 1,5	≥ 2,5	≥ 3,0	≥ 3	6	≥ 4
Cold resistance (-20°C) (mm)	≤ 100	≥ 150	≥ 150	200	200	230	300	500	450

Aircell® air chamber panels

The patented Aircell® hollow chamber plates from VACU-form, a leading plastics expert in Germany, combine stability, efficiency, and cost-effectiveness. These ultra-light, 100% recyclable plates are up to 70% lighter than comparable solid plates, while maintaining equal stability and lower costs.

Weather-resistant and moisture-proof, they are suitable for a wide range of applications. Choose from various designs: colored surfaces, custom printing, anti-slip coating, or textile/fleece finishing. Our models 15/5000 and 16/6000 are lightweight solutions for particularly demanding tasks – unique in both manufacturing and application.

Application range

Packaging area:

- Foldable reusable load carrier
- Container rings for pallet and cover systems
- Intermediate inserts and inserts
- Stacking container and special packaging

Pallet processing:

- Load floors and side walls
- Covers (spare wheel, luggage compartment)
- Display and partition walls
- Suitcase inserts
- Advertising boards

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