HOLLOW PROFILES OF POLYPROPYLENE

Extruded hollow profiles in PP and HDPE offer efficient solutions for a wide variety of applications. Compared to alternatives such as cardboard, metal or rigid plastics, Omipa products offer several advantages:

- Economical
- Robust
- Water and moisture-resistant
- Strong and durable
- Recyclable
- Light
- Waterproof
- Unlimited reuse
- Standard or tailor-made
- Approved for good packing
- Electrically conductive or non-conductive

Hollow Profiles in PP – HDPE

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Indicative gram weight (g/m²)</th>
</tr>
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<td>1800 – 2700</td>
</tr>
</tbody>
</table>

Production lines in useful width up to 3000 mm.

For more than 50 years, we have been designing and manufacturing complete lines for extrusion and coextrusion of thermoplastic materials. Our values are, and have always been:

- In-house design and construction of all the most critical parts of the line
- Use of high quality raw materials and components (mechanical, electrical and electronic)
- Close partnership with our customers, for development of new products and solutions
- Rapid and competent after-sales assistance, with remote diagnosis.

Choose know-how, synonymous with quality of investment. Choose Omipa.

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21040 Morazzone (Va) Italy
tel. +39 0332.461400
Fax +39 0332.873026
omipa@omipa.it www.omipa.it
Hollow Profiles in PP – HDPE

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Hollow Profil PP
APPLICATIONS PASSING ALL BOUNDS. CREATIVITY WITH NO LIMITS

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Hollow Profiles in PP – HDPE

Thickness | Indicative Gramweight
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Production lines in useful width up to 3000 mm.

For more than 50 years, we have been designing and manufacturing complete lines for extrusion and coextrusion of thermoplastic materials.

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DOSING UNIT
Extruder feeding is accomplished by a gravimetric or volumetric system with more components.

DIE
The new generation of dies for hollow profiles ensure distribution optimization in every width, without any adjustment requirement. TPPC dies are designed to self-adjust upon variation of output capacities / widths.

COEXTRUSION
It is possible to extrude layers in different materials with optimal distribution across the die width.

FILTER AND PUMP
Filtering through oleodynamic filter changers or continuous flow filter changers; the OMP series melt pump: these are all components designed by Omipa to guarantee constant mixing at high output rates.

STACKING UNIT
Omipa offers a wide range of solutions for stacking the finished product on pallet, meeting every stacking requirement.

SHEAR CUTTING UNIT
Single or double cut by shear, according to the produced profile width, in order to obtain more sheet sizes simultaneously. Fast and accurate cut, with line speed synchronisation system (stop & go).

2ND TAKE-OFF AND TRIMMING UNIT
The profile is trimmed with a set of mobile knives with manual or automatic adjustment and visualisation of knife position on screen.

CORONA TREATMENT
PP profiles undergo Corona treatment to prepare them for printing, and are cut to measure with high precision cutting system by shear or blade.

For more than 40 years we have been designing and manufacturing complete extrusion lines for the production of hollow profiles in PP. Now we are a world leader, with more than 200 complete extrusion lines delivered by us all over the world.

Our strength points:
• constant technological update and development of new products
• patented calibrator system with air cushion and floating plate
• high reliability of our lines, suitable for high outputs
• energy saving, thanks to the use of new technology components
• multi-layer coextrusion technology for applications in recycling and graphic art
• foaming technology

PROCESSING. A COMBINATION OF WINNING FACTORS.
AN ASSURED RESULT: QUALITY AND EFFICIENCY

EXTRUDER
The OM series extruder, with or without venting, whose barrel has a special wear-resistant coating.

FILTER AND PUMP
Filtering through oleodynamic filter changers or continuous flow filter changers; the OMP series melt pump: these are all components designed by Omipa to guarantee constant mixing at high output rates.

CALIBRATOR
This element is a fundamental element of the process, whose role is to form the product in order to optimise its thickness, structure and surface quality.

FLOATING PLATE and AIR CUSHION system
is the patent developed by Omipa for this delicate working phase. There is a double advantage: better product quality and simpler process.

MAIN FEATURES OF THE LINE:

- MATERIALS: PP, HDPE, ABS
- THICKNESS RANGE: From 1.5 mm to 12 mm for standard profiles, thicker profiles for special applications upon request
- PRODUCT GEOMETRY: From 2 to 6 walls and more
- USEFUL WIDTH: From 1200 mm to 3000 mm
- OUTPUT CAPACITY: Up to 900 kg/h
- CONFIGURATION: Monolayer, 2-layer and 3-layer coextrusion
- APPLICATIONS: Industrial packaging, advertising, packaging for the food industry, agricultural applications, automotive industry, home appliances, pharmaceutical applications, solar panels

STORING UNIT
Design offers a wide range of solutions for storing the finished product on pallet, meeting every storage requirement.
Hollow Profiles in PP – HDPE

**Thickness** | **Indicative gramweight**
---|---
1.5 – 2 | 200 – 400
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Production lines in useful width up to 3000 mm.

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**APPLICATIONS PASSING ALL BOUNDS. CREATIVITY WITH NO LIMITS**

**EXTRUSION LINES FOR THE MANUFACTURE OF HOLLOW PROFILES OF POLYPROPYLENE**

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Hollow Profile PP

Hollow and extruded profiles in PP and HDPE offer efficient solutions for a wide variety of applications. Compared to alternatives such as cardboard, metal or rigid plastics, Omipa products offer several advantages:

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*Hollow profiles are used for various applications such as packaging, construction, and electronics.*