

REUSABLE PACKAGING

Reusable Packaging Systems

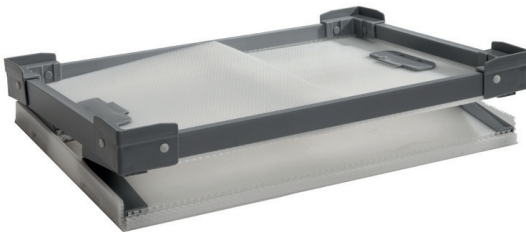
Lightweight, ergonomic and durable polypropylene packaging for industrial distribution and in-plant handling.



RETURNABLE BY DESIGN

Protect.
Handle.
Reuse.

Boxes and dividers shaped around the product, the load and the distribution loop.



Designed for repeated journeys

Reusable boxes can simplify packing, reduce replacement packaging and protect products during storage and transport. Foldable designs also reduce the space occupied during empty returns.

Discuss your application

info@roplast.com.tr | +90 222 236 22 22

DESIGN & DISTRIBUTION

Build a more efficient packaging loop

The box, handling method and return journey are considered together to reduce recurring distribution and packaging costs.

A design around your operation

- Base-lock and structural design to suit dimensions, loads and stacking needs.
- Materials and details matched to the operating environment.
- Review of current packaging expenditure and potential savings.
- Calculation of the optimum box quantity for the distribution loop.
- Payment planning suited to your budget.

INDICATIVE REUSE POTENTIAL

50 - 500

delivery cycles

Reuse depends on design, load, handling and operating conditions.

Ergonomic handling

Designs simplify repeated assembly and dismantling. Replaceable label areas, hook-and-loop closures and RFID identification can support everyday handling and tracking.

Production flexibility

Custom colours, 2-10 mm sheet thickness and 300-3,000 g/m² weight options allow packaging to be matched to its protective function.

Protective and functional

- Protection matched to part shape, size and material.
- Ergonomic, modular and foldable packaging designs.

Economic and ecological

- Repeated use can reduce packaging replacement costs.
- Low weight and easy handling support productivity.
- Long service life and recycling help reduce waste.

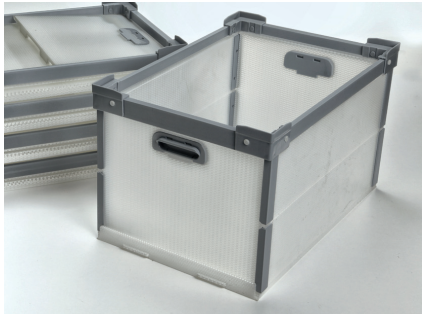
Payback through reuse

The brochure reference indicates cost recovery after 4-5 delivery cycles in suitable loops. Actual savings depend on the application.

APPLICATIONS

Packaging for demanding products

Protective solutions for manufacturing, frozen food and specialist medical handling.



Reusable industrial boxes

Corrugated PP boxes protect semi-finished goods during in-plant movement and transport between suppliers and customers. Their low weight and durability suit automotive, household-appliance and furniture applications.



Frozen food boxes

Moisture-resistant PP packaging supports the transport of seafood and other frozen products. Perforated and non-perforated designs can be selected to suit drainage, ventilation and freshness requirements.



Medical boxes

Cleanable, fibre-free PP boxes are used for specialist medical packaging. Microporous surfaces are an optional design feature.

The source literature lists 120°C for 20 minutes or 134°C for 10 minutes, with a PP melting point of approximately 165°C. These reference conditions are not a validated sterilisation protocol. Material grade, packaging function and processing cycle must be confirmed for the intended use.

APPLICATIONS

From fresh produce to electronics

Dimensions, protective details and material options can be matched to each product.

Fruit and vegetable boxes



Lightweight, water- and oil-resistant boxes protect produce in handling and transit. Empty boxes can be folded flat to save storage space, and dimensions can be customised.

Confirm food-contact suitability for the selected material and application.

Electronic equipment and ESD packaging



Protective boxes and dividers support storage and transport of electrical and electronic equipment. ESD-grade material can provide electrostatic protection as well as mechanical protection.

Standard PP is electrically insulating; ESD performance requires the appropriate material grade.

Natural stone packaging



Water-resistant corrugated plastic boxes can package natural stone after wet processing without waiting for the surface water to dry, helping reduce drying time, energy use and handling effort.

MATERIAL & PRODUCTION

PP sheet specifications

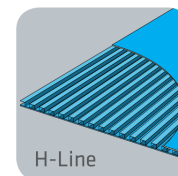
H-Line and S-Line corrugated polypropylene sheets for converting and reusable packaging.

Thickness	Weight per area	Maximum width × length
2 - 10 mm	300 - 3,000 g/m ²	2.1 × 6 m

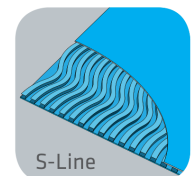
Material	Polypropylene (PP)
Profiles	H-Line and S-Line
Standard colours	Black, white, natural, grey and blue. Custom RAL colours available.
Dimensions	Up to 2,100 × 6,000 mm (width × length)
Recycling	100% recyclable PP; resin identification code 5.
Resistance	Water, oils and petroleum products; good resistance to many mineral and organic acids and solvents.

Optional features

- UV resistance
- Antistatic surface
- Flame-retardant grades
- Microporous surface
- Corona treatment for printing

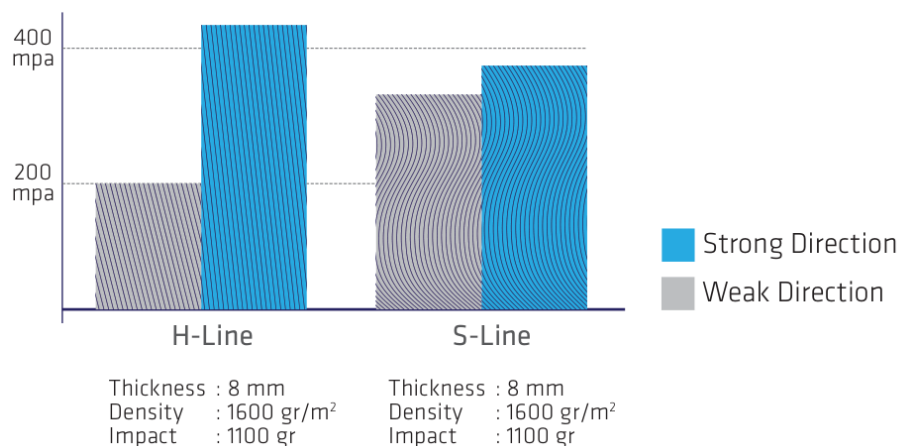


H-Line



S-Line

H-Line / S-Line directional comparison



Reference conditions

8 mm thickness
 1,600 g/m² weight
 1,100 g impact mass

Indicative comparison. Confirm test method, selected grade and operating conditions for design use.

MATERIAL SELECTION

Compare packaging materials

A practical overview of corrugated polypropylene, corrugated cardboard and injection-moulded plastic.

Consideration	Corrugated PP	Corrugated cardboard	Injection-moulded plastic
Development	Fast, economical converting	Fast, economical setup	Higher tooling investment
Strength	Lightweight; resistant to tearing and puncture	More susceptible to tearing and puncture	Rigid and heavier; may crack under impact
Cleanliness	No paper or wood fibres	May release paper fibres or dust	No paper or wood fibres
Long-term cost	Potential savings through repeated use	Shorter service life and repeated replacement	Potential savings through repeated use
Production lead time	Fast sheet converting	Fast production	Longer setup and tooling lead times
Moisture & chemicals	Water resistance and chemical resistance	May deform when exposed to moisture	Water resistance and chemical resistance
Colour options	Standard and custom colours, including RAL	Commonly white or brown	Options depend on material and production
End of life	Reusable and recyclable	Recoverable fibre-based waste	Reusable and recyclable

Performance, costs and delivery times depend on product design, material grade and operating conditions.

Production in Türkiye

Özer Toprak, Gıda, Plastik, Enerji, İnşaat, Turizm Sanayi ve Ticaret A.Ş.

Organize Sanayi Bölgesi, 3. Cadde No:1, Eskişehir, Türkiye

Contact Röplast

info@roplast.com.tr | +90 222 236 22 22