

A 3D rendering of the Rocklight plastic structure, showing a cross-section of a multi-layered material with a honeycomb-like internal structure. The structure is composed of several layers of interconnected, rounded, conical shapes that form a porous, lightweight lattice. The rendering is set against a blue background and is framed by a yellow circular border. The top layer is a solid, dark grey surface, while the internal structure is a lighter grey. The bottom layer is a solid, light blue surface. The overall appearance is that of a high-strength, low-weight plastic material.

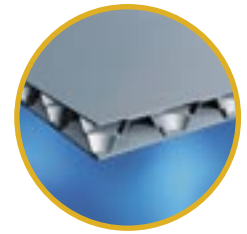
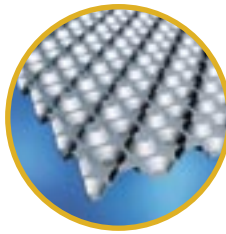
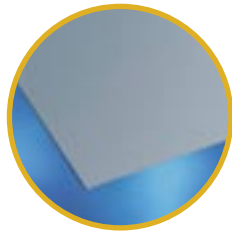
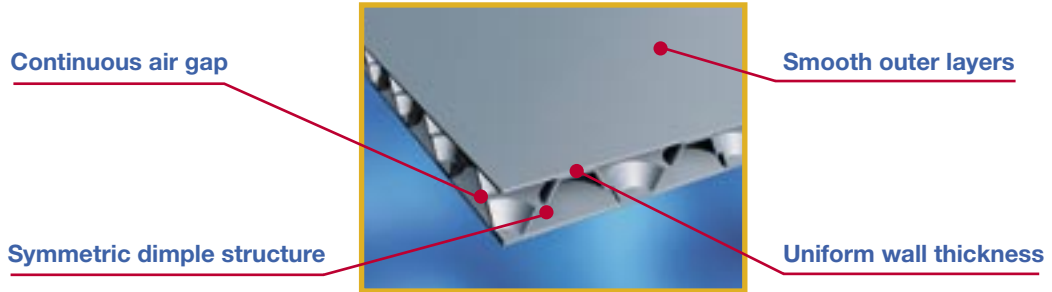
solutions in plastics

Rocklight

Hard as a Rock, Light as a Feather

ERIKS

Rocklight Technology

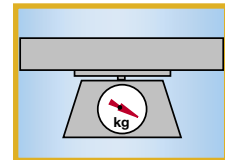
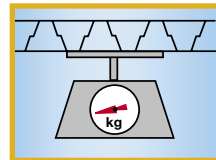


Rocklight Panels

Other Panels

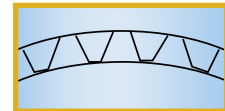
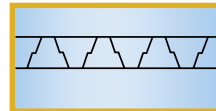
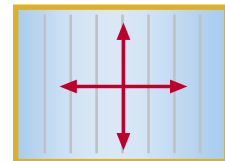
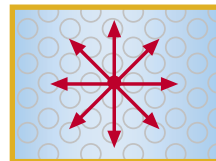
Air-Gap Sandwich Design

- Ultralight weight



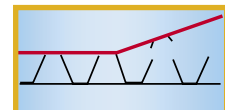
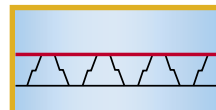
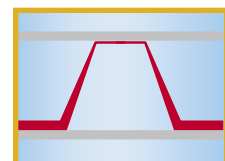
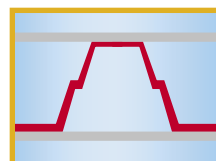
Symmetric Dimple Texturing

- Outstanding strength in all directions
- No air entrapment, therefore no buckling



Low Dimple Height Due to Positive/Negative Geometry

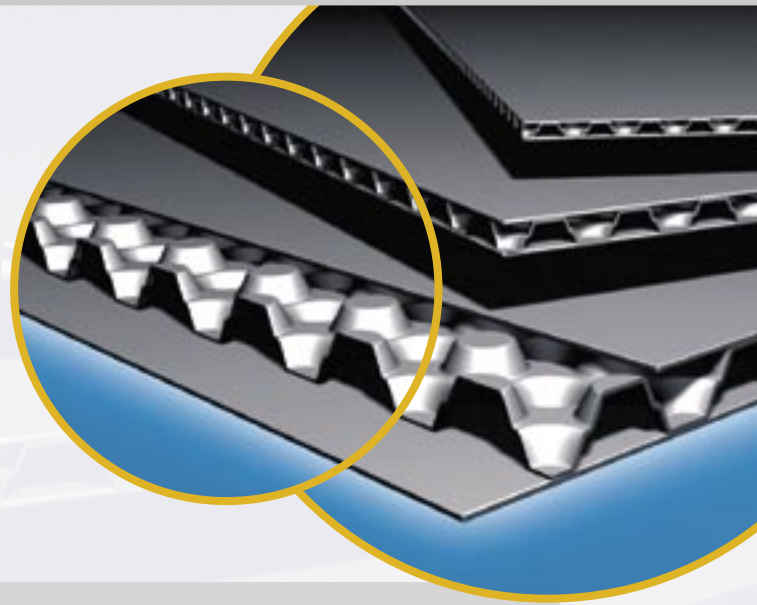
- Uniform thickness, excellent weldability on both sides



Material Properties

Rocklight is an all-round, versatile and innovative PP-sheet material which will shape the future as no plastic sheet has ever done before.

Because of its properties, Rocklight outclasses a various range of other materials in their typical applications, for example cardboard, pressed paper, wood, aluminium, solid PP-sheets, foam PVC sheet, ...



- Extremely light weight
- Outstanding compressive and impact strength
- Smooth and level surface
- Rot-proof and moisture-resistant
- Does not attract dirt
- Suitable for contact with foods and drinking water
- Outstanding chemical resistance
- Excellent thermal and acoustic insulation
- Easy to process to desired configurations
- Compatible with most printing processes without pre-treatment
- Can be laminated with various materials (textiles, tiles, foams, etc.)
- Available in personalized colours and/or different colours on each side
- Highly versatile
- 100 % recyclable
- Many other optional features

Product Range

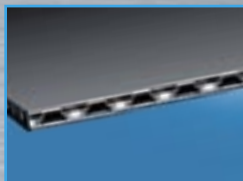
Wide range of panel types available
Select in accordance with specific application requirements:

Standard version - Material Polypropylene (PP)

Colour:	grey (approx. RAL 7001)
Dimension:	2400 x 2100 mm

Rocklight 3

- 1000 g/m²
- 1500 g/m²



(ca. 3 mm thick)

Rocklight 5

- 1000 g/m²
- 1500 g/m²
- 2000 g/m²
- 2500 g/m²



(ca. 5 mm thick)

Rocklight 10

- 2000 g/m²
- 2500 g/m²
- 3000 g/m²

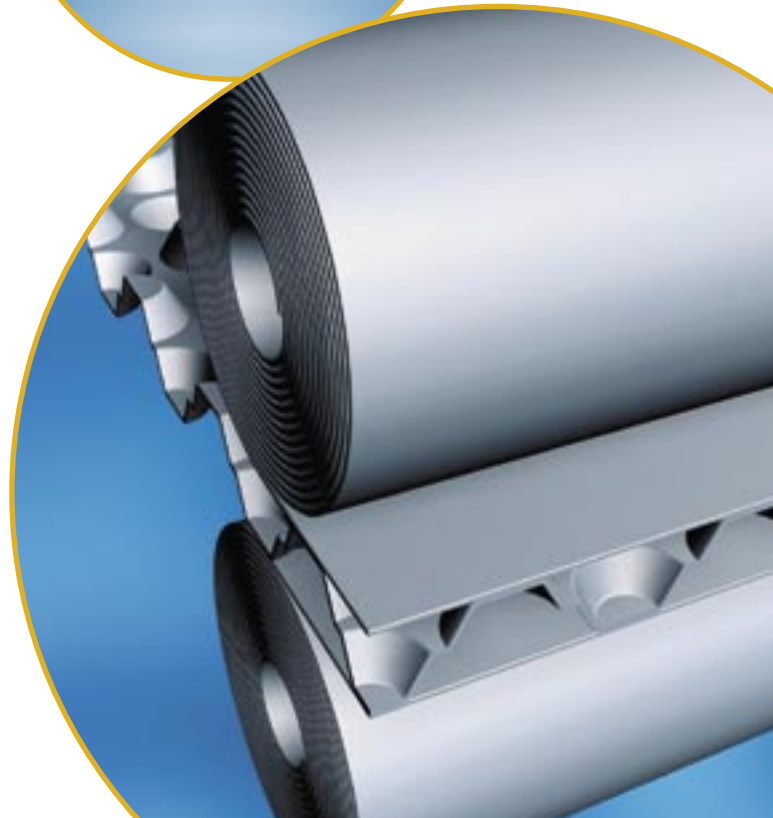
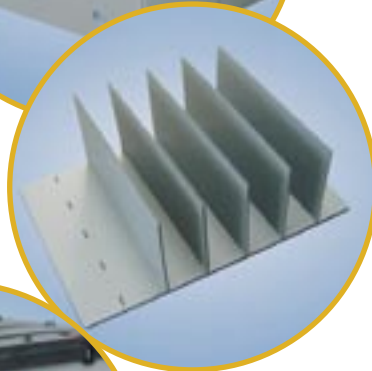
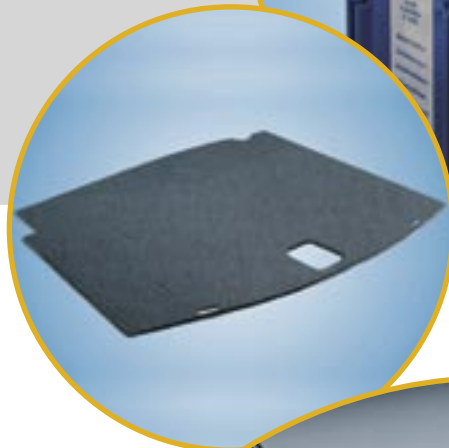


(ca. 10 mm thick)

Rocklight applications

Alternative on cardboard/wood in food-industry !

- Various types of crates, boxes and containers
- Collapsible boxes, containers, pallet enclosures
- Partitions and inserts for containers and suitcases
- One-way and reusable packaging systems
- Reinforcing elements and insert parts
- Wall panels, portable partitions, commercial displays
- Laminated and nonlaminated decorative panels and liners, machine housings
- Contoured parts of various kinds
- Automotive interior panels
- etc.



Rocklight Special Versions

Rocklight plastic panels in their standard versions excel in a wide range of products and applications. Besides high strength and ultralight weight, they provide other benefits including nontoxicity for foods and drinking water electrostatic build-up and dirt accumulation.

Rocklight panels are also available in specially formulated versions for customer applications requiring the following specific properties:



Reinforced Strength

Transport packaging sleeves are an example of a material requiring exceptional strength and rigidity. Talcum-reinforced Rocklight panels with talcum contents up to 20% are ideal for such applications. When high impact resistance is required as opposed to rigidity, the standard version without talcum reinforcement is preferred.



UV Resistance

Rocklight panels in their standard formulation have excellent UV resistance (up to 2 years) under normal light exposure. Special versions are available for use under continuous outdoor weathering with enhanced UV resistance (up to 5 years).



Electrical Conductivity

Conductive packaging and materials are a 'must' for many electronic components and systems. Rocklight panels are available in conductive versions with surface resistances ranging from 10^4 up to 10^8 Ohms. Due to the special additives used, these versions are available only in the colour black.



Fire Resistance

Rocklight panels with fire resistant additives provide enhanced safety e.g. in trade fair exhibits and other portable display systems.



Special colours

The standard colour of Rocklight panels is grey (approx. RAL 7001). Any other colour can be provided as desired - including different inner and outer colours (e.g. black on the inside and blue on the outside).

The Rocklight versions described above require special manufacturing runs with complete line cleaning before and after production. Production lots of 5 tonnes are therefore normally required for cost-effective manufacturing.

Please consult us with your specific enquiry - we will be happy to provide more detailed information.

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